

SERVICE CATALOGUE

6th Edition (2017)



YOUR PARTNER IN LABORATORY SERVICES

INTRODUCTION

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● LABORATORIES

YOUR PARTNER IN LABORATORY SERVICES

FOREWORD

Thank you for choosing us as your preferred partner in your clinical practice as you make key healthcare decisions in the provision of quality patient care.

With a modest beginning over two decades ago, Quest Laboratories has become a leading clinical laboratory in Singapore today, deriving our strengths from the complementary skills of our dedicated teams based locally and internationally.

As part of the Healthscope Group, which has become the hallmark of quality standard in hospital practice in Australia, Quest Laboratories strives to uphold quality of the highest standards in medical laboratory practice, knowing that precious lives depend on it. Our unwavering commitment to quality has driven us to achieve new milestones, attaining dual quality accreditation from the College of American Pathologists (CAP) and the Singapore Accreditation Council (SAC-SINGLAS ISO 15189:2012).

Powered by the technical precision of our gold standard instruments and lab automation, and with quality ingrained in our culture, Quest is optimally positioned to provide you with the superior customer care that you and your patients deserve.

To better serve you, we are constantly expanding our test menu including tapping on international partners to offer the latest tests, particularly in molecular genetics otherwise not available in Singapore.

Developed with our clients in mind, the 2017 edition of our service catalogue incorporates new sections with useful laboratory information. We have also reorganised our content for easier identification of test profiles to meet your clinical needs. We hope you enjoy using our new service catalogue.

We are grateful to be working with you to improve patient outcomes. Looking ahead, we are excited to continue our mutual partnership for many more years as your dependable partner in laboratory medicine.

Jessica Chua
Chief Executive Officer

Dr Tan Hong Wui
Medical Director

STATEMENT

MISSION

We will establish Quest Laboratories as the preferred private clinical laboratory in Singapore, providing the most comprehensive, innovative and responsive services, attaining a high level of customer satisfaction.

VISION

To be a premier provider of healthcare services and recognised as the preferred service provider with a reputation for excellence in quality and service.

QUALITY POLICY

Q	Quality	To achieve quality of the highest standard
U	Unique	To be unique and unparalleled
E	Ethical	To observe laboratory ethics at all times
S	Service	To provide cost-effective and value-added service
T	Technology	To achieve technological excellence in all disciplines

Licensed by the Ministry of Health in Singapore under the Private Hospitals and Medical Clinics Act (Chapter 248), Quest Laboratories is the only private and comprehensive non-hospital-based medical laboratory locally to have attained dual international accreditation for quality management.

The Quest main laboratory at StarHub Green and its satellite laboratory at Paragon Medical have been accredited by both the College of American Pathologists (CAP) and the Singapore Accreditation Council through the Singapore Laboratory Accreditation Scheme (SAC-SINGLAS ISO 15189:2012). Quest achieved CAP accreditation in 2015 and has been SAC-SINGLAS accredited since 2008.

Our CAP accreditation applies to the following areas:

- Haematology
- Endocrinology
- Toxicology
- General Chemistry
- Microbiology (includes molecular microbiology and infectious disease serology)
- Trace Metals
- Anatomical Pathology
- Calibration Verification / Linearity Programme
- Reproductive Medicine
- Coagulation
- Immunology
- Transfusion Medicine (ABO grouping and Rh typing)
- Viral Markers

Under the Health Promotion Board's (HPB) Screen for Life initiative, Quest attained the status of a certified laboratory for CervicalScreen Singapore in 2004, and since 2016, Quest has been certified to process Faecal Immunochemical Test (FIT) samples as part of the National Colorectal Cancer Screening Programme.

Additionally, Quest participates in multiple external quality assurance programmes including:

- Royal College of Pathologists of Australasia (RCPA)
 - Chemistry
 - Endocrinology

LICENSES & ACCREDITATIONS

- Immunology
- Serology
- Microbiology
- Tumour Markers
- National Proficiency Testing Scheme for Malaria Parasite and Acid Fast Bacilli
- National Proficiency Testing Scheme for HIV
- National Proficiency Testing Scheme for ABO Group and Rhesus
- Interlaboratory Comparison Program for Metals in Biological Matrices by the Centre for Toxicology of Quebec (CTQ)
- The German External Quality Assessment Scheme (G-EQUAS) for Analyses in Biological Materials
 - Aluminium
 - Zinc
 - Arsenic
 - Cadmium
 - Copper
 - Lead
 - Manganese
 - Mercury
 - Nickel
 - Selenium
 - tt-muconic Acid

THE QUEST QUALITY PROMISE

Quest Quality Policy

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While Quest's quality is signified by our various accreditations and certifications, quality is even more than that to us. Quality is ingrained in the way we work and it is what we want our clinician clients and patients to experience every time we serve them.

In all that we do, our commitment to quality entails putting patient safety first, achieving technical precision, and operating in a manner that is client-centric.

FIELDS OF LABORATORY MEDICINE

With our main laboratory located at StarHub Green and two satellite laboratories at Paragon Medical and Thomson Medical, Quest provides a comprehensive suite of laboratory services to over 2,000 clinicians as well as hospitals and corporate clients throughout Singapore. Propelled by state-of-the-art technology and an uncompromising approach to quality, Quest fulfills thousands of patient episodes each day.

To meet the testing needs of general practitioners, specialists, integrated healthcare providers, as well as non-profit healthcare organisations, Quest offers a full range of tests in the following areas of laboratory medicine:

- Histopathology
- Cytopathology
- Biochemistry
- Haematology
- Microbiology
- Immunology
- Serology
- Special Chemistry
- Industrial Toxicology
- Allergy Testing

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Aptio Automation

Advance your laboratory's productivity.



*Due to regulatory reasons their future availability cannot be guaranteed

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SERVICE INFORMATION

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Quest Laboratories is the largest independent, private medical laboratory in Singapore. The first full-service private laboratory in the country with dual accreditation from the College of American Pathologists (CAP) and the Singapore Accreditation Council, Quest is proud to be your trusted partner to support you in making key healthcare decisions and delivering quality patient care.

1. LABORATORY LOCATIONS

Main Laboratory: 67 Ubi Avenue 1
StarHub Green, North Wing
#07-01 to 07, 09 & 10
Singapore 408942
Tel: 6275-5501 Fax: 6277-0220

Satellite Laboratories: 290 Orchard Road
Paragon Medical
#17-07/08/09
Singapore 238859
Tel: 6737-2788 Fax: 6887-3249

339 Thomson Road
Thomson Medical, Level 4
Singapore 307677
Tel: 6350-8804 Fax: 6250-3032

2. OPERATING HOURS

Main Laboratory @ StarHub Green

Monday to Friday: 8.30am – 6.00pm
Saturday & Sunday: 8.30am – 1.00pm
Public Holidays: Closed

Satellite Laboratory @ Paragon

Monday to Friday: 8.30am – 5.00pm
Saturday: 8.30am – 1.00pm
Sunday & Public Holidays: Closed

SERVICE INFORMATION

3. SPECIMEN COLLECTION HOTLINES

3.1 Please call our collection hotline for specimen collection:
6277-0221 / 6277-0222

3.2 Collection Hours:

Monday to Friday:	8.30am – 4.30pm
Saturday & Sunday:	8.30am – 12.30pm

4. OTHER HOTLINES

Billing & Test Charges:	6277-0266 / 6277-0265
Results Tracing – Clinical:	6275-5501 (extension '0')
Results Tracing – Histo/Cyto:	6277-0211 / 6277-0212
Supplies Requisition:	6277-0221 / 6277-0222

5. SUPPLIES

5.1 Selected basic supplies such as specimen containers, syringes, needles, and request forms will be supplied without charge.

6. COLLECTION OF SPECIMENS & SPECIMEN STORAGE

6.1 In order to ensure the optimum condition of all specimens for the most accurate test results, please refer to the respective sections of our sample collection manual online before collecting specimens from a patient. Special requirements and special instructions are to be clearly indicated. All patient specimens must be accompanied by a request form and each specimen container must be labelled correctly to prevent errors in results reporting.

6.2 Request forms must include the following information:

- a. Full name of patient
- b. Patient's identification number (NRIC or Passport No.)
- c. Date of birth
- d. Gender (male or female)
- e. Source of specimen (if not blood)
- f. Date and time of collection
- g. Doctor's name and clinic stamp
- h. Initials of requesting doctor

- 6.3 DO NOT store blood specimens in the freezer.
- 6.4 DO NOT send specimens in syringes as they are hazardous to those handling the specimens.
- 6.5 If blood specimens are drawn from a patient in the closing hour or in the evening, please ensure that the blood containers are properly packed and stored.
- 6.6 Blood/urine specimens CANNOT be kept overnight for tests such as Acid Phosphatase, Glucose, Electrolytes, Calcium, Phosphate, Urine FEME, and Urine Culture. Please check with us for full details.
- 6.7 Laboratory results and reference ranges may vary between laboratories.

7. RESULTS TURNAROUND TIME

- 7.1 For urgent samples: 2 hours to 4 hours (during office hours) after receipt of samples at the laboratory.
- 7.2 For routine samples: 1 to 5 working days. This does not include scheduled tests and send-out tests.

8. PAYMENT

- 8.1 Credit term is 30 days from date of invoice.
- 8.2 The credit policy will be strictly enforced. Please settle your invoice timely. Cheque payments are to be made to: Quest Laboratories Pte Ltd.
- 8.3 We accept credit card payment for walk-in patients.
- 8.4 Our marketing staff are authorised to collect payments on behalf of the company. Alternatively, you can mail your payments directly to our office at StarHub Green.
- 8.5 All prices listed are not inclusive of GST.

9. SEND-OUT TESTS

Send-out tests are outsourced to reference laboratories in Singapore and Quest's international strategic partners. Results turnaround time is between 7 to 14 working days.

Please call 6277-0266 for more information on our send-out tests and prices.

10. GUIDELINES FOR HIV TESTING

“Samples reactive for HIV screening test must be repeated and repeated reactive samples and those with equivocal results must be referred to the National HIV Reference Laboratory, Department of Pathology, Singapore General Hospital (SGH) for confirmation. The reactive results of the HIV screening test are NOT to be released to the patient or the referring doctor before they are confirmed by the National HIV Reference Laboratory. Laboratories shall also ensure that a sufficient amount of blood is taken for the HIV screening test so that there is a sufficient amount of the blood sample (at least 1.5cc of serum/plasma) to be sent to the National HIV Reference Laboratory for confirmatory tests should the HIV screening test produce reactive results.” [Doc No. MH71:03/09 02-01/96 (HV), Vol. 10]

In light of the directive from the Ministry of Health, clinical laboratories must ensure sufficient amount of blood is received for the HIV screening test. A minimum of 4ml of blood must be received by the laboratory to conduct the HIV screening test, repeats and confirmatory test for reactive cases at the National HIV Reference Laboratory.

The Ministry's guidelines with regard to HIV screening by a PHMC-licensed laboratory stipulate that all HIV reactive cases **MUST** be sent to the National HIV Reference Laboratory at SGH for a **confirmatory test**.

The HIV confirmatory test is chargeable for all patients based on SGH's prevailing rate (April 2017).

USEFUL LABORATORY & MEDICAL INFORMATION

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USEFUL LAB &
MEDICAL INFO

SPECIMEN COLLECTION & HANDLING

1. Introduction

Quest Laboratories is committed to providing timely and accurate results to support your clinical practice in making key healthcare decisions and delivering quality patient care. The provision of accurate diagnostic results is contingent upon the quality of the specimen received, together with legible and appropriate clinical history in the accompanying request form.

Appended below is information on sample collection and handling to facilitate quality specimen collection and ensure the integrity of test results.

2. Specimen Collection Containers

2.1 Vacutainer Tubes

APPROPRIATE USE OF VACUTAINER TUBES		
Cap Colour	Tube Type	Laboratory Use
Light Blue	Sodium Citrate, 3.2% (fill sample up to the mark)	Coagulation Test
Red	Clot Activator, Plain	Lipid, HIV, Virology, Antibody Identification, Cold Agglutinin
Gold	Clot Activator, Plain with GEL, SST II	Biochemical, Virology, Immunology, Protein Electrophoresis
Royal Blue (Plain)	Trace Element with Clot Activator	Aluminium, Copper, Selenium, Zinc

SPECIMEN COLLECTION AND HANDLING

Cap Colour	Tube Type	Laboratory Use
Green	Lithium Heparin	Tropinin T, Stat K
Royal Blue (EDTA)	Trace Element K ₂ EDTA	Arsenic, Cadmium, Lead, Manganese, Mercury
Lavender	K ₂ EDTA	FBC, HbA1c, Direct Antiglobulin, Antibody Identification, Hb Electrophoresis
Grey	Sodium Fluoride	Glucose, GTT, Lactic Acid
QuantiFERON®-TB Gold Plus (set of 4 tubes)	TB PCR. To order collection containers (set of 4) at least 3 working days in advance.	Send within same day. Charges apply for rejected samples for wrong collection procedures or mislabelling.

2.2 Other Collection Containers & Supplies

APPROPRIATE USE OF CONTAINERS & SUPPLIES		
Description	Type	Laboratory Use
Blood Culture Bottle	A set of green and orange cap BacT/ALERT blood culture bottles (send bottles in pairs)	Aerobic & anaerobic blood culture
Capillary Tube	Heparinised tube (collect 2-3 tubes)	For neonatal bilirubin test

SPECIMEN COLLECTION AND HANDLING

Description	Type	Laboratory Use
Charcoal Swab	Amies transport medium with charcoal (formulated to maintain microorganisms viability)	For GC and N Gorrhoeae culture
Culture Swab	Blue cap swab with gel medium	Bacterial culture, NSU and mycoplasma cultures. Also suitable for aerobic & anaerobic organisms.
Dry Swab	Red cap sterile cotton tip (without gel medium)	For Herpes PCR, Chlamydia Trachomatis, Gonococcol PCR
Formalin 10%	500ml plastic bottle	For fixation of histology specimen
Glucose Drink	75mg glocose drink	For Glucose Tolerance Test
Pap Smear Kit	Slide holder with a glass slide and wooden spatula (write patient's name on frosted end of slide in pencil)	Conventional pap smear
Pap Smear Cytospray	200ml cytospray bottle (use for up to 200 slides)	For fixation of smears
Pap ThinPrep Vial	ThinPrep collection vial with cytobrush	Liquid-based cytology PAP test
Urine Container (50ml)	Sterile plastic container with screw cap	For analysis of urine, body fluid, sputum, culture, skin scrapping, fungi, etc.

SPECIMEN COLLECTION AND HANDLING

Description	Type	Laboratory Use
Urine Container (24hr Urine Container)	White container with screw cap	For 24hr urine collection analysis
Stool Container	Non-sterile container with attached spatula and screw cap	Stool examination and culture
Syringes & Needles	Disposable & individually sealed syringes & needles. Syringes: 5, 10 & 20ml Needles: 21G & 22G	Blood collection and transfer of blood into vacutainer tubes
Vacutainer Needle	Individually-sealed disposable needle (100/box – Green 21G, Black 22G)	Blood draw facilitated by vacutainer holder
Vacutainer Holder	Yellow plastic collection holder	Fix vacutainer needle to holder to collect blood using vacutainer tubes

3. General Specimen Preparation

3.1 Specimen Preparation

- a) Follow specific instructions in profiles and single test listing.
- b) Ensure correct collection containers are used and adequate amount of specimen is collected.
- c) Label request forms and specimen containers correctly to prevent specimen rejection.
- d) Verify with at least two identifiers to ensure specimen is collected from the correct patient.
- e) Mandatory information required by the Lab for HIV screening: Patient's nationality, screening purpose and residency status. Submit a minimum of 4ml of blood for HIV testing, repeats and confirmatory test for reactive cases at the National HIV Reference Laboratory.

3.2 Important Considerations for Blood Collection

- a) Identify patient correctly and use appropriate collection tubes.
- b) Ensure patient fasts if required for at least 8-12 hours. Plain water is allowed.
- c) Discourage prolonged fasting.
- d) Avoid haemolysis by adopting good blood taking techniques.
- e) Avoid leaving tourniquet on patient's arm for extended time.
- f) Ensure optimal anticoagulant effect.
- g) Protect photosensitive specimen from light.
- h) Send for prompt specimen processing.
- i) Chill specimen if required at the right temperature.
- j) Keep LDH isoenzymes specimen at room temperature and do not chill it. ACTH request to collect in EDTA tube and send between 8am and 10am (within one hour in ice).

3.3 Unacceptable Blood Specimens

- a) Incorrect identification of patient or specimen
- b) Clotted blood specimen
- c) Insufficient volume
- d) Use of dated supplies
- e) Contaminated specimen
- f) Use of incorrect blood tube
- g) Use of urine/stool non-sterile and non-standard containers not supplied by the Lab

3.4 Microbiology Specimen

- a) Refer to the test listing for specific instructions and types of sterile containers/devices to use.
- b) Proper collection is vital to avoid contamination from indigenous flora.
- c) Provide information on clinical presentation and specimen source/site on request form.
- d) Whenever possible, collect specimens before administering antimicrobials.
- e) Specimen container must be labelled with the patient's details.
- f) Prompt delivery of specimen to the laboratory to ensure viability of pathogens.
- g) If a delay is unavoidable, store specimen at 2-8 °C except for blood, anaerobic cultures, specimens for *Trichomonas vaginalis* and *Neisseria* species, and cerebrospinal fluids.

SPECIMEN COLLECTION AND HANDLING

- h) If *Neisseria gonorrhoea* is suspected, submit specimen on a charcoal swab (black cap).

3.5 Blood Culture

- a) Collect blood culture specimen using sterile techniques to reduce the chance of contamination.
- b) BacT/ALERT® PF Plus (Biomérieux) for pediatric blood Culture bottle. Recovery is improved with the recommended volume of 4ml.
- c) BacT/ALERT® FA Plus (Biomérieux) Aerobic and/or BacT/ALERT® FN Plus (Biomérieux). Recovery is improved with the recommended volume of 10ml.
- d) Transport inoculated BacT/ALERT blood cultured bottles to the Lab as soon as possible.
- e) Two to three sets of cultures per patient collected by separate venipuncture sites are recommended by the Clinical and Laboratory Standards Institute (CLSI).

3.6 Fluids and Effusions

- a) Send aspirate in a sterile container. Refrigerate at 2-8 °C if delay in transportation is anticipated except for cerebrospinal fluids.
- b) For large volumes, let it stand for 30 minutes, pour away top portion of fluid and transfer the bottom 50ml to a sterile container. Send to the Lab as soon as possible.

3.7 Gastrointestinal Specimens

- a) If transport delay is anticipated, refrigerate specimen at between 2-8 °C.
- b) Use charcoal swab (black cap) if rectal swab is used for *Neisseria gonorrhoea* culture.
- c) Stool specimen: Patient should pass stool specimen directly into a clean stool container provided by the Lab. Stool specimen sent in other forms e.g. toilet tissue, plastic bag or other container will be rejected.

3.8 Urine Specimens

- a) Collect mid-stream urine (50ml) into a sterile urine container.
- b) DO NOT submit specimens collected from a bedpan or urinal.
- c) 24hr urine sample is not suitable for culture.

- d) Refrigerate specimen if transportation delay is expected. Do not freeze specimen.

3.9 Cervical (Pap) Smears

- a) State origin of site (cervical, endocervical, vaginal, vault).
- b) State last menstrual period (LMP) and hormonal status (e.g. post-menopausal, pregnant, post-natal).
- c) State exogenous hormone therapy and use of intrauterine contraceptive device.
- d) History of abnormal cytology and gynaecological disorders.
- e) Date of last pap smear, if any.
- f) Other relevant clinical findings or patient's concerns (e.g. discharge, itch, foul smell, bleeding, pain).
- g) Ideal sampling date is two weeks after the first day of last menstrual period.
- h) Discourage sampling during normal menses.
- i) Write patient's name and ID in pencil on the frosted end of the glass slide.
- j) Unlabelled slide will be rejected and discarded. Clinic will be informed of the rejection.

3.10 ThinPrep Pap Test

- a) Obtain adequate sampling from the cervix using the cytobrush.
- b) Rinse the brush in the PreservCyt solution vial. Discard the brush and do not leave it inside the vial.
- c) Tighten the vial cap so that the torque line on the cap passes the torque line on the vial.
- d) Write patient's name and ID on the label on the vial.
- e) Provide relevant clinical information and medical history on the request form.
- f) Unlabelled vial will be rejected and discarded. Clinic will be informed of the rejection.

3.11 Histopathology and Cytology Tests

- a) Label each specimen and include the date and time when the specimen was taken.
- b) Send specimens in clean containers with 10% buffered formalin.
- c) Multiple small specimens such as gastrointestinal biopsies should be mounted on a piece of filter paper and properly labelled. Biopsies from different segments of the GI tract are to

SPECIMEN COLLECTION AND HANDLING

- be separated in different containers.
- d) Large specimens should be opened, the contents cleaned out and specimen completely immersed in formalin. Containers must be tightly secured.
 - e) For specimen which may require immunohistochemistry tests, indicate on request form specimen excision time and formalin immersion time.
 - f) Do not crush specimens with forceps, haemostats or other instruments. Avoid using cautery.
 - g) Label each container with the patient's name, NRIC/admission number, source, and nature of specimen.
 - h) For specimens where orientation is important, mark the specimen, e.g. axillary tail of mastectomy specimens, N2 lymph node of gastrectomy specimens, most proximal lymph node of colectomy specimens.

3.11.1 Fine Needle Aspiration

- a) Fix 2-4 slides immediately (within a few seconds) using cytology spray fixative or by immersing slides in 95% ethyl alcohol for 20 minutes.
- b) If air-dried (unfixed) smears are also prepared for same patient, differentiate fixed and unfixed slides in separate containers. Indicate "A/D" for air-dried slides.
- c) Provide clinical information. Also indicate site of aspiration, clinical diagnosis, whether lesion is solid or cystic, and gross appearance of aspirate, if applicable.

3.12 Molecular Biology

3.12.1 Chlamydia & Gonorrhoea PCR

- a) Male patient: Urine preferred. Collect 15-20ml morning first voided urine in a sterile container or urethral swab, aluminium invasive dry swab (red cap).
- b) Female patient: Endocervical/HVS in dry swab (red cap) container. Send to the Lab as soon as possible.
- c) Collect specimen using dry swab (red cap) for rectal, conjunctival and throat specimen.
- d) Refrigerate sample until transfer to the Lab. Do not freeze specimen.

3.12.2 HBV DNA PCR

- a) Collect 3ml EDTA blood for HBV DNA test.

3.12.3 HPV DNA PCR

- a) Collect specimen on Abbott Cervi-Collection Specimen Collection Kit.
- b) (HPV swab) or ThinPrep vial (if ordered with ThinPrep Pap test).

3.12.4 Real Time HSV PCR

- a) Use dry swab (red cap) for genital swab or oral swabs collected from mouth, tongue, lips, pharynx and/or eyes.

3.12.5 VPIII (Vaginitis Screen)

- a) Use dry swab (red cap) for vaginal fluid specimens for patients with symptoms of vaginitis/vaginosis.

3.13 Urine Collection Procedure

3.13.1 Random & Time Urine

- a) Random urine specimens may be collected at any time.
- b) Timed urine specimens are obtained at designated intervals from “time zero”. Clearly note the time of collection on each container and on the request form.

3.13.2 24-Hour Urine

- a) 24hr urine specimens require collection using a 24hr urine container.
- b) Patient to discard the first morning urine. 24hr collection begins after this void.
- c) Record date and time on the urine container provided (e.g. 8am, 8/1/2017).
- d) The next morning at the same time, collect void urine into the bottle as the final urine collection for the 24hr period.

SPECIMEN COLLECTION AND HANDLING

- e) Unpreserved urine specimens should preferably be refrigerated during the period of collection to prevent microbiologic decomposition and chemical changes.

3.13.3 24-Hour Urine with Preservatives

- a) Include the designated preservatives in the urine collection container at the start of the collection.
- b) Caution patient that the preservatives may be toxic and caustic, and not to spill or discard the preservatives.
- c) Some urinary constituents such as VMA, Na, K, Cl and Ca vary greatly with diet.
- d) For VMA testing, dietary restriction prior to urine collection is required. Abstain from vanilla, chocolate, coffee, bananas, citrus fruits, salt, aspirin, and hypertensive drugs.

3.13.4 24-Hour Urine Collection for Trace Metals

- a) Various medications/supplements taken may affect the results of the test.
- b) Birth control pills often produce elevated levels of copper in the blood.
- c) Drugs taken for high blood pressure frequently contain diuretics which increase the amount of liquid discharged and dilute the urine.
- d) The intake of vitamin C should be discontinued for 3 days before the test.
- e) Stop iron and trace element supplements a few days before the test.

3.13.5 Additional Preparation for the Following Trace Element Testing

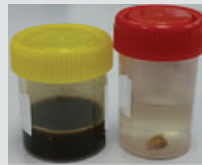
- a) Arsenic – Avoid all seafood and seaweed for 72 hours prior to specimen collection.
- b) Cadmium – Avoid shellfish for at least 3 days prior to specimen collection.
- c) Chromium – Refrain from taking vitamin or mineral supplements at least 1 week prior to collection.
- d) Copper – Stop birth control medications for a few days before the test.

- e) Mercury – Avoid seafood and seaweed 3 days prior to the collection.
- f) Aluminium – Abstain from fruit juice and tea 1 day prior to the collection.

4. Recommended Container Size for Histology Specimens

Quest Laboratories provides 2 specimen container sizes for histology specimens. For small biopsies as listed below, use the small specimen bottles. Curettings should be placed in small specimen bottles, and if necessary, 2 small bottles can be used for larger amounts of curettings. Use the big specimen bottles only for large specimens such as those from the uterus, colon, placenta, and mastectomy.

Add sufficient volume of 10% buffered formalin relative to the size of the specimen to fully immerse the specimen. Please ensure that all histology specimens are capped tightly to avoid leakage of formalin.



Small specimen bottles – curettings, small biopsies, skin biopsies, needle biopsies, cervical and cone biopsies, small fibroids, small ovarian cysts, and small specimens less than 3-5cm.



Big specimen bottles – uterus, colon, placenta, and mastectomy.

Please **DO NOT** use the big specimen bottles for small specimens.

CRITICAL VALUES

CRITICAL VALUES

LIST OF CRITICAL VALUES OF LABORATORY TESTS				
Haematology	Low Limit		High Limit	
Haemoglobin (Hb)	6.0 g/dl		20.0 g/dl	
White Blood Cell (WBC)	2.0 x 10 ⁹ / L		25.0 x 10 ⁹ / L	
Platelets (PLT)	50.0 x 10 ⁹ / L		800 x 10 ⁹ / L	
Reticulocyte (Retic)	None		20%	
Prothrombin Time (PT)	None		50 sec	
Activated Partial Thromboplastin Time (APTT)	None		90 sec	
INR	-		4.5	
Peripheral Blood Film (PBF)	Shows leukemic cells (progranulocytic or blast)			
	Shows abnormal leukemoid reaction			
Malarial Parasite (MP)	Positive			
Microfilaria	Positive			
Chemistry	Low Limit		High Limit	
	Conventional Unit (mg/dl)	SI Unit (mmol/L)	Conventional Unit (mg/dl)	SI Unit (mmol/L)
Neonatal Bilirubin	-	-	18	310
Calcium	6	1.5	13	3.25
Phosphate	1	0.32	-	-
Glucose	40	2.2	500	27.7
Potassium	-	2.5	-	6
Sodium	-	120	-	160
Chloride	-	80	-	120
Bicarbonate (CO ₂)	-	10	-	36
Immunology/Microbiology				
Dengue IgM/IgG & Dengue NS1	Positive			
Blood Culture	Positive			
CSF Culture	Positive			
CSF & Body Fluids Gram Stain	Positive			
AFB Smears	Positive			

LABORATORY UNITS – CONVERSION FACTORS

LABORATORY UNITS – CONVERSION FACTORS

These are the conversion factors for laboratory units used in commonly ordered tests:










- For conversion of SI unit to Conventional unit, multiply test value in SI unit by the conversion factor.
- For conversion of Conventional unit to SI unit, divide test value in Conventional unit by the conversion factor.

CONVERSION FACTORS FOR LABORATORY UNITS

Test	SI Unit	Conversion Factor	Conventional Unit
Bilirubin	umol/L	0.058	mg/dL
Calcium	mmol/L	4	mg/dL
Cholesterol, Total	mmol/L	38.61	mg/dL
Cholesterol, HDL	mmol/L	38.61	mg/dL
Cholesterol, LDL	mmol/L	38.61	mg/dL
Creatinine	umol/L	0.0113	mg/dL
Glucose	mmol/L	18	g/dL
Iron	umol/L	5.6	ug/dL
Iron Binding Capacity	umol/L	5.6	ug/dL
Magnesium	mmol/L	2.43	mg/dL
Phosphate	mmol/L	3.1	mg/dL
Triglycerides	mmol/L	88.5	mg/dL
Urea	mmol/L	6.006	mg/dL
Uric Acid	umol/L	0.01681	mg/dL
Free T4	pmol/L	0.0777	pg/dL
Free T3	pmol/L	64.94	pg/dL

ORDER OF DRAW

ORDER OF DRAW

Tube	Cap Colour	Additive	Determinations	Inversion
Sodium Citrate	 Light Blue	Buffered Sodium Citrate 0.109M (3.2%)	PT, APTT, D-Dimer, Lupus Anticoagulant, Anti-Thrombin III, Protein S & C, Fibrinogen, Factor Assay, HLA B27	3-4
Red Top Plain	 Red	Clot Activator Silicone-coated	Cold Agglutinins, Abnormal Blood Group Antibody Screen, Antibody Identification & Vitamin D2 & D3 (HPLC)	5
Plain	 Gold	Clot Activator and GEL for Serum Separation	Biochemistry, Virology, Immunology, Vitamin B12, Folate, Anticonvulsant Drug Monitoring, Therapeutic Drug Monitoring (TDM) & other Investigations that Require Serum (i.e. plain blood)	5
Royal Blue Plain	 Royal Blue (Serum)	Trace Element (with clot activator)	Zinc, Copper, Aluminium, Selenium	8-10
Lithium Heparin	 Green	Lithium Heparin	STAT Biochemistry, Plasma Ammonia (in ice pack), CD34, Blood Alcohol, Toxicological Tests, Chromosomes Studies, Electrolytes, Renal Function Tests, TB Spot	8-10
Lithium Heparin	 Light Green	Lithium Heparin and GEL for Plasma Separation	STAT Biochemistry, Plasma Ammonia (in ice pack), CD34, Blood Alcohol, Toxicological Tests, Chromosomes Studies, Electrolytes, Renal Function Tests	8-10
Royal Blue EDTA	 Royal Blue (K ₂ EDTA)	K ₂ EDTA	Arsenic, Cadmium, Chromium, Mercury, Lead, Manganese	8-10
K ₂ EDTA	 Lavender	Spray-coated K ₂ EDTA	FBC, PBF, MP, ESR, HbA1c, Cyclosporine A, G6PD, RBC Cholinesterase, ACTH, Renin, HB Electrophoresis, Thalassemia Screening, CD4/CD8, Factor V Leiden	8-10
Sodium Fluoride	 Grey	Sodium Fluoride	Glucose, Lactic Acid (in ice pack)	8-10

- * Blood culture bottles to be drawn (if required) before blood tubes
- * Trace element: If using serum trace element tube with clot activator, please collect after serum tubes
- * Use 2 identifiers for patient identification
- * Maximum tourniquet time: not more than one minute
- * Sites to avoid taking blood: fistula arm, mastectomy site, IV drip or burn sites
- * Always wear a new pair of gloves

PROFILES

General Screen
Anaemia & Thalassemia Profile
Antenatal & Miscarriage Profile
Arthritis, Auto-Immune & Lupus Profile
Allergy Profile
Cancer Profile
Coronary Risk, Cardiac Enzyme & Lipid Profile
Diabetic & Hypertension Profile
Drugs of Abuse Profile
Dengue Fever & Febrile Profile
Haematology, Coagulation & Pre-Op Profile
Hepatitis & Liver Profile
Hormonal, Fertility & Menopausal Profile
Menstrual, Anti-Ageing & Premarital Profile
Renal Profile
Sexually Transmitted Disease (STD) Profile
Thyroid Profile
Work Permit Profile

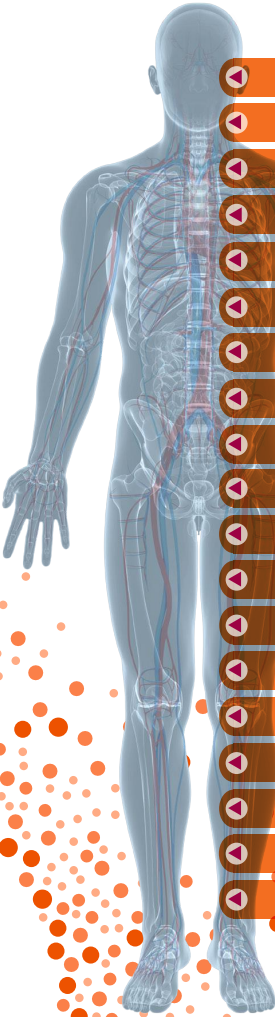
quest
● LABORATORIES

YOUR PARTNER IN LABORATORY SERVICES

GENERAL SCREEN

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Disease State

- ◀ Allergy
- ◀ Anemia/Iron Metabolism
- ◀ Autoimmune
- ◀ Bone Metabolism
- ◀ Cardiovascular
- ◀ Diabetes
- ◀ Growth
- ◀ Hemostasis/Coagulation
- ◀ Infectious Disease
- ◀ Inflammation
- ◀ Kidney Disease
- ◀ Liver Disease
- ◀ Metabolic
- ◀ Neurology
- ◀ Nutritional Assessment
- ◀ Oncology
- ◀ Reproductive Endocrinology
- ◀ Thyroid
- ◀ Transplantation

Laboratory Diagnostics

Siemens Healthineers' broad spectrum of immunoassay, chemistry, hematology, molecular, urinalysis, and blood gas testing systems, in conjunction with automation, informatics and services, can serve the needs of patient testing – today and tomorrow.

*Due to regulatory reasons their future availability cannot be guaranteed.

GENERAL SCREEN SUMMARY

TEST/PROFILE		QLS1	QLS2	QLS3	QLS4	QLS5	QLS6	QLS7	QLS8	QLS9	QLS10	QLS11
Haematology	Full Blood Count	+	+	+	+	+	+	+	+	+	+	+
	ESR	+	+		+	+	+	+	+	+	+	+
	ABO Grouping						+	+	+	+	+	+
Diabetic Panel	Glucose	+	+	+	+	+	+	+	+	+	+	+
Renal Function	Urea	+	+		+	+	+	+	+	+	+	+
	Creatinine	+		+	+	+	+	+	+	+	+	+
	Sodium				+	+	+	+	+	+	+	+
	Potassium				+	+	+	+	+	+	+	+
	Chloride				+	+	+	+	+	+	+	+
	Urine Microalbumin/Creatinine Ratio	+	+	+	+	+	+	+	+	+	+	+
Bone/Joint Profile	Calcium					+	+	+	+	+	+	+
	Phosphate					+	+	+	+	+	+	+
	Uric Acid	+	+	+	+	+	+	+	+	+	+	+
	Rheumatoid Factor (RF)											+
Lipid Profile	Total Cholesterol	+	+	+	+	+	+	+	+	+	+	+
	Triglycerides	+	+	+	+	+	+	+	+	+	+	+
	HDL, LDL Cholesterol	+	+	+	+	+	+	+	+	+	+	+
	Chol/HDL Ratio	+	+	+	+	+	+	+	+	+	+	+
	Creatine Kinase (CK)		+									
Liver Profile	Total Protein	+	+	+	+	+	+	+	+	+	+	+
	Albumin	+	+	+	+	+	+	+	+	+	+	+
	Globulin	+	+	+	+	+	+	+	+	+	+	+
	A/G Ratio	+	+	+	+	+	+	+	+	+	+	+
	Total Bilirubin	+	+	+	+	+	+	+	+	+	+	+
	Alkaline Phosphatase	+	+	+	+	+	+	+	+	+	+	+
	AST/SGOT	+	+	+	+	+	+	+	+	+	+	+
	ALT/SGPT	+	+	+	+	+	+	+	+	+	+	+
GGT	+	+	+	+	+	+	+	+	+	+	+	
Thyroid Profile	Free T4 (FT4)				+		+	+	+	+	+	+
	Thyroid Stimulating Hormone (TSH)				+		+	+	+		+	+
Tumour Markers	Alpha Fetoprotein (AFP)									+	+	+
	Carcinoembryonic Antigen (CEA)									+	+	+
	PSA (male)											
	CA125 (female)											
	CA19.9											
Hepatitis Profile	EBV EA-IgA											
	Hepatitis Bs Antigen (HBsAg)						+	+		+	+	+
	Hepatitis Bs Antibody (HBsAb)						+	+		+	+	+
	Hepatitis A Total Antibody											+
STD Profile	VD (Syphilis TP Ab)	+	+	+	+	+		+	+	+	+	+
	RPR & TPPA (if Syphilis is reactive)	+	+	+	+	+		+	+	+	+	+
Urinalysis	Urine FEME	+	+	+	+	+	+	+	+	+	+	+
Stool Analysis	Stool Occult Blood											
	1 Additional Test											

GENERAL SCREEN SUMMARY

TEST/PROFILE		QLS12	QLS13	QLS14	QLS15	QLS30	QLS31	QLS32	QLS33	QLS34	QLS35	QLS36	
Haematology	Full Blood Count	+	+	+	+	+	+	+	+	+	+	+	
	ESR	+	+	+	+	+	+	+	+	+	+	+	
	ABO Grouping	+	+	+	+					+	+		
Diabetic Panel	Glucose	+	+	+	+	+	+	+	+	+	+	+	
	HbA1c											+	
Renal Function	Urea	+	+	+	+	+	+	+	+	+	+	+	
	Creatinine	+	+	+	+	+	+	+	+	+	+	+	
	Sodium	+	+	+	+		+	+	+	+	+	+	
	Potassium	+	+	+	+		+	+	+	+	+	+	
	Chloride	+	+	+	+		+	+	+	+	+	+	
	eGFR											+	
	Urine Microalbumin/Creatinine Ratio	+	+	+	+							+	
Bone/Joint Profile	Calcium	+	+	+	+			+	+	+	+	+	
	Phosphate	+	+	+	+			+	+	+	+	+	
	Uric Acid	+	+	+	+	+	+	+	+	+	+	+	
	Rheumatoid Factor (RF)		+		+				+	+	+	+	
Lipid Profile	Total Cholesterol	+	+	+	+	+	+	+	+	+	+	+	
	Triglycerides	+	+	+	+	+	+	+	+	+	+	+	
	HDL, LDL Cholesterol	+	+	+	+	+	+	+	+	+	+	+	
	Chol/HDL Ratio	+	+	+	+	+	+	+	+	+	+	+	
Liver Profile	Total Protein	+	+	+	+	+	+	+	+	+	+	+	
	Albumin	+	+	+	+	+	+	+	+	+	+	+	
	Globulin	+	+	+	+	+	+	+	+	+	+	+	
	A/G Ratio	+	+	+	+	+	+	+	+	+	+	+	
	Total Bilirubin	+	+	+	+	+	+	+	+	+	+	+	
	Alkaline Phosphatase	+	+	+	+	+	+	+	+	+	+	+	
	AST/SGOT	+	+	+	+	+	+	+	+	+	+	+	
	ALT/SGPT	+	+	+	+	+	+	+	+	+	+	+	
GGT	+	+	+	+	+	+	+	+	+	+	+		
Thyroid Profile	Free T4 (FT4)	+	+	+	+		+	+	+	+	+	+	
	Thyroid Stimulating Hormone (TSH)	+	+	+	+		+	+	+	+	+	+	
Tumour Markers	Alpha Fetoprotein (AFP)	+	+	+	+			+	+	+	+	+	
	Carcinoembryonic Antigen (CEA)	+	+	+	+				+	+	+	+	
	PSA (male)					++						++	
	CA125 (female)					++						++	
	CA19.9				+							+	
	Beta HCG											+	
Hepatitis Profile	EBV EA-IgA			+							+	+	
	Hepatitis Bs Antigen (HBsAg)	+	+	+	+			+	+	+	+	+	
	Hepatitis Bs Antibody (HBsAb)	+	+	+	+			+	+	+	+	+	
	Hepatitis A Total Antibody	+	+	+	+					+	+	+	
STD Profile	Hepatitis C Antibody											+	
	VD (Syphilis TP Ab)	+	+	+	+	+	+	+	+	+	+	+	
	RPR & TPPA (if Syphilis is reactive)	+	+	+	+	+	+	+	+	+	+	+	
Urinalysis	Urine FEME	+	+	+	+	+	+	+	+	+	+	+	
	Stool Analysis	Stool Occult Blood		+	+							+	
		Stool Occult Blood (Immunological)											+
	1 Additional Test		+								+		

Plain (Fasting)	8ml GEL
EDTA	3ml
Fluoride	2ml
Mid-stream Urine	20ml

Haematology

1. Full Blood Count
2. ESR

Renal Panel

3. Glucose
4. Urea
5. Creatinine
6. Uric Acid
7. Urine Microalbumin/
Creatinine Ratio

Liver Panel

8. Total Bilirubin
9. Total Protein
10. Albumin
11. Globulin
12. A/G Ratio
13. AST/SGOT
14. ALT/SGPT
15. Alkaline Phosphatase
16. GGT

Lipid Panel

17. Cholesterol, Total
18. Cholesterol, HDL
19. Cholesterol, LDL
20. Cholesterol/HDL Ratio
21. Triglycerides

STD Screen

22. VD (Syphilis TP Ab)
23. RPR & TPPA (if Syphilis is
reactive)

Urine FEME

24. Urine FEME

Plain (Fasting)	8ml GEL
EDTA	3ml
Fluoride	2ml
Mid-stream Urine	20ml

Haematology

1. Full Blood Count
2. ESR

Renal Panel

3. Glucose
4. Urea
5. Uric Acid
6. Urine Microalbumin/
Creatinine Ratio

Liver Panel

7. Total Bilirubin
8. Total Protein
9. Albumin
10. Globulin
11. A/G Ratio
12. AST/SGOT
13. ALT/SGPT
14. Alkaline Phosphatase
15. GGT

Lipid Panel

16. Cholesterol, Total
17. Cholesterol, HDL
18. Cholesterol, LDL
19. Cholesterol/HDL Ratio
20. Triglycerides

STD Screen

21. VD (Syphilis TP Ab)
22. RPR & TPPA (if Syphilis is
reactive)

Cardiac Risk Assessment

23. CK-MB (if CK is elevated)

Urine FEME

24. Urine FEME

Plain (Fasting)	8ml GEL
EDTA	3ml
Fluoride	2ml
Mid-stream Urine	20ml

Haematology

1. Full Blood Count

Renal Panel

2. Glucose
3. Creatinine
4. Uric Acid
5. Urine Microalbumin/
Creatinine Ratio

Liver Panel

6. Total Bilirubin
7. Total Protein
8. Albumin
9. Globulin
10. A/G Ratio
11. AST/SGOT
12. ALT/SGPT
13. Alkaline Phosphatase
14. GGT

Lipid Panel

15. Cholesterol, Total
16. Cholesterol, HDL
17. Cholesterol, LDL
18. Cholesterol/HDL Ratio
19. Triglycerides

STD Screen

20. VD (Syphilis TP Ab)
21. RPR & TPPA (if Syphilis is
reactive)

Urine FEME

22. Urine FEME

Plain (Fasting)	8ml GEL
EDTA	3ml
Fluoride	2ml
Mid-stream Urine	20ml

Haematology

1. Full Blood Count
2. ESR

Renal Panel

3. Sodium
4. Potassium
5. Chloride
6. Glucose
7. Urea
8. Creatinine
9. Uric Acid
10. Urine Microalbumin/
Creatinine Ratio

Liver Panel

11. Total Bilirubin
12. Total Protein
13. Albumin
14. Globulin
15. A/G Ratio
16. AST/SGOT
17. ALT/SGPT
18. Alkaline Phosphatase
19. GGT

Lipid Panel

20. Cholesterol, Total
21. Cholesterol, HDL
22. Cholesterol, LDL
23. Cholesterol/HDL Ratio
24. Triglycerides

Thyroid Panel

25. Free T4 (FT4)
26. Thyroid Stimulating Hormone
(TSH)

STD Screen

27. VD (Syphilis TP Ab)
28. RPR & TPPA (if Syphilis is
reactive)

Urine FEME

29. Urine FEME

Plain (Fasting)	8ml GEL
EDTA	3ml
Fluoride	2ml
Mid-stream Urine	20ml

Haematology

1. Full Blood Count
2. ESR

Renal Panel

3. Sodium
4. Potassium
5. Chloride
6. Glucose
7. Urea
8. Creatinine
9. Urine Microalbumin/
Creatinine Ratio

Bone/Joint Function

10. Calcium
11. Phosphate
12. Uric Acid

Liver Panel

13. Total Bilirubin
14. Total Protein
15. Albumin
16. Globulin
17. A/G Ratio
18. AST/SGOT
19. ALT/SGPT
20. Alkaline Phosphatase
21. GGT

Lipid Panel

22. Cholesterol, Total
23. Cholesterol, HDL
24. Cholesterol, LDL
25. Cholesterol/HDL Ratio
26. Triglycerides

STD Screen

27. VD (Syphilis TP Ab)
28. RPR & TPPA (if Syphilis is
reactive)

Urine FEME

29. Urine FEME

Plain (Fasting)	8ml GEL
EDTA	3ml
Fluoride	2ml
Mid-stream Urine	20ml

Haematology

1. Full Blood Count
2. ESR
3. ABO Blood Group

Renal Panel

4. Sodium
5. Potassium
6. Chloride
7. Glucose
8. Urea
9. Creatinine
10. Urine Microalbumin/
Creatinine Ratio

Bone/Joint Function

11. Calcium
12. Phosphate
13. Uric Acid

Liver Panel

14. Total Bilirubin
15. Total Protein
16. Albumin
17. Globulin
18. A/G Ratio
19. AST/SGOT
20. ALT/SGPT
21. Alkaline Phosphatase
22. GGT

Lipid Panel

23. Cholesterol, Total
24. Cholesterol, HDL
25. Cholesterol, LDL
26. Cholesterol/HDL Ratio
27. Triglycerides

Thyroid Panel

28. Free T4 (FT4)
29. Thyroid Stimulating Hormone
(TSH)

Hepatitis Panel

30. Hepatitis Bs Antigen (HBsAg)
31. Hepatitis Bs Antibody (HBsAb)

Urine FEME

32. Urine FEME

Plain (Fasting)
 EDTA
 Fluoride
 Mid-stream Urine

8ml GEL
 3ml
 2ml
 20ml

Haematology

1. Full Blood Count
2. ESR
3. ABO Blood Group

Renal Panel

4. Sodium
5. Potassium
6. Chloride
7. Glucose
8. Urea
9. Creatinine
10. Urine Microalbumin/
Creatinine Ratio

Bone/Joint Function

11. Calcium
12. Phosphate
13. Uric Acid

Liver Panel

14. Total Bilirubin
15. Total Protein
16. Albumin
17. Globulin
18. A/G Ratio
19. AST/SGOT
20. ALT/SGPT
21. Alkaline Phosphatase
22. GGT

Lipid Panel

23. Cholesterol, Total
24. Cholesterol, HDL
25. Cholesterol, LDL
26. Cholesterol/HDL Ratio
27. Triglycerides

Thyroid Panel

28. Free T4 (FT4)
29. Thyroid Stimulating Hormone
(TSH)

Hepatitis Panel

30. Hepatitis Bs Antigen (HBsAg)
31. Hepatitis Bs Antibody (HBsAb)

STD Screen

32. VD (Syphilis TP Ab)
33. RPR & TPPA (if Syphilis is
reactive)

Urine FEME

34. Urine FEME

Plain (Fasting)	8ml GEL
EDTA	3ml
Fluoride	2ml
Mid-stream Urine	20ml

Haematology

1. Full Blood Count
2. ESR
3. ABO Blood Group

Renal Panel

4. Sodium
5. Potassium
6. Chloride
7. Glucose
8. Urea
9. Creatinine
10. Urine Microalbumin/
Creatinine Ratio

Bone/Joint Function

11. Calcium
12. Phosphate
13. Uric Acid

Liver Panel

14. Total Bilirubin
15. Total Protein
16. Albumin
17. Globulin
18. A/G Ratio
19. AST/SGOT
20. ALT/SGPT
21. Alkaline Phosphatase
22. GGT

Lipid Panel

23. Cholesterol, Total
24. Cholesterol, HDL
25. Cholesterol, LDL
26. Cholesterol/HDL Ratio
27. Triglycerides

Thyroid Panel

28. Free T4 (FT4)
29. Thyroid Stimulating Hormone
(TSH)

STD Screen

30. VD (Syphilis TP Ab)
31. RPR & TPPA (if Syphilis is
reactive)

Urine FEME

32. Urine FEME

Plain (Fasting)
 EDTA
 Fluoride
 Mid-stream Urine

8ml GEL
 3ml
 2ml
 20ml

Haematology

1. Full Blood Count
2. ESR
3. ABO Blood Group

Renal Panel

4. Sodium
5. Potassium
6. Chloride
7. Glucose
8. Urea
9. Creatinine
10. Urine Microalbumin/
Creatinine Ratio

Bone/Joint Function

11. Calcium
12. Phosphate
13. Uric Acid

Liver Panel

14. Total Bilirubin
15. Total Protein
16. Albumin
17. Globulin
18. A/G Ratio
19. AST/SGOT
20. ALT/SGPT
21. Alkaline Phosphatase
22. GGT

Lipid Panel

23. Cholesterol, Total
24. Cholesterol, HDL
25. Cholesterol, LDL
26. Cholesterol/HDL Ratio
27. Triglycerides

Thyroid Panel

28. Free T4 (FT4)

Hepatitis Panel

29. Hepatitis Bs Antigen (HBsAg)
30. Hepatitis Bs Antibody (HBsAb)

Tumour Markers

31. Alpha Fetoprotein (AFP)
32. Carcinoembryonic Antigen
(CEA)

STD Screen

33. VD (Syphilis TP Ab)
34. RPR & TPPA (if Syphilis is
reactive)

Urine FEME

35. Urine FEME

QLS10 QUEST SCREEN QLS10

Plain (Fasting)	8ml GEL
EDTA	3ml
Fluoride	2ml
Mid-stream Urine	20ml

Haematology

1. Full Blood Count
2. ESR
3. ABO Blood Group

Renal Panel

4. Sodium
5. Potassium
6. Chloride
7. Glucose
8. Urea
9. Creatinine
10. Urine Microalbumin/
Creatinine Ratio

Bone/Joint Function

11. Calcium
12. Phosphate
13. Uric Acid

Liver Panel

14. Total Bilirubin
15. Total Protein
16. Albumin
17. Globulin
18. A/G Ratio
19. AST/SGOT
20. ALT/SGPT
21. Alkaline Phosphatase
22. GGT

Lipid Panel

23. Cholesterol, Total
24. Cholesterol, HDL
25. Cholesterol, LDL
26. Cholesterol/HDL Ratio
27. Triglycerides

Thyroid Panel

28. Free T4 (FT4)
29. Thyroid Stimulating Hormone
(TSH)

Hepatitis Panel

30. Hepatitis Bs Antigen (HBsAg)
31. Hepatitis Bs Antibody (HBsAb)

Tumour Markers

32. Alpha Fetoprotein (AFP)
33. Carcinoembryonic Antigen
(CEA)

STD Screen

34. VD (Syphilis TP Ab)
35. RPR & TPPA (if Syphilis is
reactive)

Urine FEME

36. Urine FEME

QLS11 QUEST SCREEN QLS11

Plain (Fasting)	8ml GEL
EDTA	3ml
Fluoride	2ml
Mid-stream Urine	20ml

Haematology

1. Full Blood Count
2. ESR
3. ABO Blood Group

Renal Panel

4. Sodium
5. Potassium
6. Chloride
7. Glucose
8. Urea
9. Creatinine
10. Urine Microalbumin/
Creatinine Ratio

Bone/Joint Function

11. Calcium
12. Phosphate
13. Uric Acid
14. Rheumatoid Factor

Liver Panel

15. Total Bilirubin
16. Total Protein
17. Albumin
18. Globulin
19. A/G Ratio
20. AST/SGOT
21. ALT/SGPT
22. Alkaline Phosphatase
23. GGT

Lipid Panel

24. Cholesterol, Total
25. Cholesterol, HDL
26. Cholesterol, LDL
27. Cholesterol/HDL Ratio
28. Triglycerides

Thyroid Panel

29. Free T4 (FT4)
30. Thyroid Stimulating Hormone
(TSH)

Hepatitis Panel

31. Hepatitis Bs Antigen (HBsAg)
32. Hepatitis Bs Antibody (HBsAb)
33. Hepatitis A Total Antibody

Tumour Markers

34. Alpha Fetoprotein (AFP)
35. Carcinoembryonic Antigen
(CEA)

STD Screen

36. VD (Syphilis TP Ab)
37. RPR & TPPA (if Syphilis is
reactive)

Urine FEME

38. Urine FEME

QLS12 QUEST SCREEN QLS12

Plain (Fasting)	8ml GEL
EDTA	3ml
Fluoride	2ml
Mid-stream Urine	20ml

Haematology

1. Full Blood Count
2. ESR
3. ABO Blood Group

Renal Panel

4. Sodium
5. Potassium
6. Chloride
7. Glucose
8. Urea
9. Creatinine
10. Urine Microalbumin/
Creatinine Ratio

Bone/Joint Function

11. Calcium
12. Phosphate
13. Uric Acid

Liver Panel

14. Total Bilirubin
15. Total Protein
16. Albumin
17. Globulin
18. A/G Ratio
19. AST/SGOT
20. ALT/SGPT
21. Alkaline Phosphatase
22. GGT

Lipid Panel

23. Cholesterol, Total
24. Cholesterol, HDL
25. Cholesterol, LDL
26. Cholesterol/HDL Ratio
27. Triglycerides

Thyroid Panel

28. Free T4 (FT4)
29. Thyroid Stimulating Hormone
(TSH)

Hepatitis Panel

30. Hepatitis Bs Antigen (HBsAg)
31. Hepatitis Bs Antibody (HBsAb)
32. Hepatitis A Total Antibody

Tumour Markers

33. Alpha Fetoprotein (AFP)
34. Carcinoembryonic Antigen
(CEA)

STD Screen

35. VD (Syphilis TP Ab)
36. RPR & TPPA (if Syphilis is
reactive)

Urine FEME

37. Urine FEME

QLS13 QUEST SCREEN QLS13

Plain (Fasting)	8ml GEL
EDTA	3ml
Fluoride	2ml
Mid-stream Urine	20ml
Fresh Stool	

Haematology

1. Full Blood Count
2. ESR
3. ABO Blood Group

Renal Panel

4. Sodium
5. Potassium
6. Chloride
7. Glucose
8. Urea
9. Creatinine
10. Urine Microalbumin/
Creatinine Ratio

Bone/Joint Function

11. Calcium
12. Phosphate
13. Uric Acid
14. Rheumatoid Factor

Liver Panel

15. Total Bilirubin
16. Total Protein
17. Albumin
18. Globulin
19. A/G Ratio
20. AST/SGOT
21. ALT/SGPT
22. Alkaline Phosphatase
23. GGT

Lipid Panel

24. Cholesterol, Total
25. Cholesterol, HDL
26. Cholesterol, LDL
27. Cholesterol/HDL Ratio
28. Triglycerides

Thyroid Panel

29. Free T4 (FT4)
30. Thyroid Stimulating Hormone
(TSH)

Hepatitis Panel

31. Hepatitis Bs Antigen (HBsAg)
32. Hepatitis Bs Antibody (HBsAb)
33. Hepatitis A Total Antibody

Tumour Markers

34. Alpha Fetoprotein (AFP)
35. Carcinoembryonic Antigen
(CEA)

STD Screen

36. VD (Syphilis TP Ab)
37. RPR & TPPA (if Syphilis is
reactive)

Urine FEME

38. Urine FEME

Stool Analysis

39. Stool Occult Blood

Select ONE Additional Test from List

- a) CA125 (female)
- b) CA19.9
- c) PSA (male)
- d) CA15.3
- e) Beta HCG
- f) Thyroid Stimulating Hormone
(TSH)
- g) Glycosylated Hb (HbA1c)

QLS14 QUEST SCREEN QLS14

Plain (Fasting)	8ml GEL
EDTA	3ml
Fluoride	2ml
Mid-stream Urine	20ml
Fresh Stool	

Haematology

1. Full Blood Count
2. ESR
3. ABO Blood Group

Renal Panel

4. Sodium
5. Potassium
6. Chloride
7. Glucose
8. Urea
9. Creatinine
10. Urine Microalbumin/
Creatinine Ratio

Bone/Joint Function

11. Calcium
12. Phosphate
13. Uric Acid

Liver Panel

14. Total Bilirubin
15. Total Protein
16. Albumin
17. Globulin
18. A/G Ratio
19. AST/SGOT
20. ALT/SGPT
21. Alkaline Phosphatase
22. GGT

Lipid Panel

23. Cholesterol, Total
24. Cholesterol, HDL
25. Cholesterol, LDL
26. Cholesterol/HDL Ratio
27. Triglycerides

Thyroid Panel

28. Free T4 (FT4)
29. Thyroid Stimulating Hormone
(TSH)

Hepatitis Panel

30. Hepatitis Bs Antigen (HBsAg)
31. Hepatitis Bs Antibody (HBsAb)
32. Hepatitis A Total Antibody

Tumour Markers

33. Alpha Fetoprotein (AFP)
34. Carcinoembryonic Antigen
(CEA)
35. EBV EA-IgA

STD Screen

36. VD (Syphilis TP Ab)
37. RPR & TPPA (if Syphilis is
reactive)

Urine FEME

38. Urine FEME

Stool Analysis

39. Stool Occult Blood

QLS15 QUEST SCREEN QLS15

Plain (Fasting)	8ml GEL
EDTA	3ml
Fluoride	2ml
Mid-stream Urine	20ml

Haematology

1. Full Blood Count
2. ESR
3. ABO Blood Group

Renal Panel

4. Sodium
5. Potassium
6. Chloride
7. Glucose
8. Urea
9. Creatinine
10. Urine Microalbumin/
Creatinine Ratio

Bone/Joint Function

11. Calcium
12. Phosphate
13. Uric Acid
14. Rheumatoid Factor

Liver Panel

15. Total Bilirubin
16. Total Protein
17. Albumin
18. Globulin
19. A/G Ratio
20. AST/SGOT
21. ALT/SGPT
22. Alkaline Phosphatase
23. GGT

Lipid Panel

24. Cholesterol, Total
25. Cholesterol, HDL
26. Cholesterol, LDL
27. Cholesterol/HDL Ratio
28. Triglycerides

Thyroid Panel

29. Free T4 (FT4)
30. Thyroid Stimulating Hormone
(TSH)

Hepatitis Panel

31. Hepatitis Bs Antigen (HBsAg)
32. Hepatitis Bs Antibody (HBsAb)
33. Hepatitis A Total Antibody

Tumour Markers

34. Alpha Fetoprotein (AFP)
35. Carcinoembryonic Antigen
(CEA)
36. CA19.9
37. CA125 (female)
38. PSA (male)

STD Screen

39. VD (Syphilis TP Ab)
40. RPR & TPPA (if Syphilis is
reactive)

Urine FEME

41. Urine FEME

Plain (Fasting)	8ml GEL
EDTA	3ml
Fluoride	2ml
Mid-stream Urine	20ml

Haematology

1. Full Blood Count
2. ESR

Renal Panel

3. Glucose
4. Urea
5. Creatinine

Bone/Joint Function

6. Uric Acid

Liver Panel

7. Total Bilirubin
8. Total Protein
9. Albumin
10. Globulin
11. A/G Ratio
12. AST/SGOT
13. ALT/SGPT
14. Alkaline Phosphatase
15. GGT

Lipid Panel

16. Cholesterol, Total
17. Cholesterol, HDL
18. Cholesterol, LDL
19. Cholesterol/HDL Ratio
20. Triglycerides

STD Screen

21. VD (Syphilis TP Ab)
22. RPR & TPPA (if Syphilis is reactive)

Urine FEME

23. Urine FEME

Plain (Fasting)
 EDTA
 Fluoride
 Mid-stream Urine

8ml GEL
 3ml
 2ml
 20ml

Haematology

1. Full Blood Count
2. ESR

Renal Panel

3. Sodium
4. Potassium
5. Chloride
6. Glucose
7. Urea
8. Creatinine

Bone/Joint Function

9. Uric Acid

Liver Panel

10. Total Bilirubin
11. Total Protein
12. Albumin
13. Globulin
14. A/G Ratio
15. AST/SGOT
16. ALT/SGPT
17. Alkaline Phosphatase
18. GGT

Lipid Panel

19. Cholesterol, Total
20. Cholesterol, HDL
21. Cholesterol, LDL
22. Cholesterol/HDL Ratio
23. Triglycerides

Thyroid Panel

24. Free T4 (FT4)
25. Thyroid Stimulating Hormone (TSH)

STD Screen

26. VD (Syphilis TP Ab)
27. RPR & TPPA (if Syphilis is reactive)

Urine FEME

28. Urine FEME

Plain (Fasting)	8ml GEL
EDTA	3ml
Fluoride	2ml
Mid-stream Urine	20ml

Haematology

1. Full Blood Count
2. ESR

Renal Panel

3. Sodium
4. Potassium
5. Chloride
6. Glucose
7. Urea
8. Creatinine

Bone/Joint Function

9. Calcium
10. Phosphate
11. Uric Acid

Liver Panel

12. Total Bilirubin
13. Total Protein
14. Albumin
15. Globulin
16. A/G Ratio
17. AST/SGOT
18. ALT/SGPT
19. Alkaline Phosphatase
20. GGT

Lipid Panel

21. Cholesterol, Total
22. Cholesterol, HDL
23. Cholesterol, LDL
24. Cholesterol/HDL Ratio
25. Triglycerides

Thyroid Panel

26. Free T4 (FT4)
27. Thyroid Stimulating Hormone (TSH)

Hepatitis Panel

28. Hepatitis Bs Antigen (HBsAg)
29. Hepatitis Bs Antibody (HBsAb)

Tumour Markers

30. Alpha Fetoprotein (AFP)

STD Screen

31. VD (Syphilis TP Ab)
32. RPR & TPPA (if Syphilis is reactive)

Urine FEME

33. Urine FEME

QLS33 QUEST SCREEN QLS33

Plain (Fasting)	8ml GEL
EDTA	3ml
Fluoride	2ml
Mid-stream Urine	20ml

Haematology

1. Full Blood Count
2. ESR

Renal Panel

3. Sodium
4. Potassium
5. Chloride
6. Glucose
7. Urea
8. Creatinine

Bone/Joint Function

9. Calcium
10. Phosphate
11. Uric Acid
12. Rheumatoid Factor

Liver Panel

13. Total Bilirubin
14. Total Protein
15. Albumin
16. Globulin
17. A/G Ratio
18. AST/SGOT
19. ALT/SGPT
20. Alkaline Phosphatase
21. GGT

Lipid Panel

22. Cholesterol, Total
23. Cholesterol, HDL
24. Cholesterol, LDL
25. Cholesterol/HDL Ratio
26. Triglycerides

Thyroid Panel

27. Free T4 (FT4)
28. Thyroid Stimulating Hormone (TSH)

Hepatitis Panel

29. Hepatitis Bs Antigen (HBsAg)
30. Hepatitis Bs Antibody (HBsAb)

Tumour Markers

31. Alpha Fetoprotein (AFP)
32. Carcinoembryonic Antigen (CEA)

STD Screen

33. VD (Syphilis TP Ab)
34. RPR & TPPA (if Syphilis is reactive)

Urine FEME

35. Urine FEME

QLS34 QUEST SCREEN QLS34

Plain (Fasting)	8ml GEL
EDTA	3ml
Fluoride	2ml
Mid-stream Urine	20ml

Haematology

1. Full Blood Count
2. ESR
3. ABO Blood Group

Renal Panel

4. Sodium
5. Potassium
6. Chloride
7. Glucose
8. Urea
9. Creatinine

Bone/Joint Function

10. Calcium
11. Phosphate
12. Uric Acid
13. Rheumatoid Factor

Liver Panel

14. Total Bilirubin
15. Total Protein
16. Albumin
17. Globulin
18. A/G Ratio
19. AST/SGOT
20. ALT/SGPT
21. Alkaline Phosphatase
22. GGT

Lipid Panel

23. Cholesterol, Total
24. Cholesterol, HDL
25. Cholesterol, LDL
26. Cholesterol/HDL Ratio
27. Triglycerides

Thyroid Panel

28. Free T4 (FT4)
29. Thyroid Stimulating Hormone (TSH)

Hepatitis Panel

30. Hepatitis Bs Antigen (HBsAg)
31. Hepatitis Bs Antibody (HBsAb)
32. Hepatitis A Total Antibody

Tumour Markers

33. Alpha Fetoprotein (AFP)
34. Carcinoembryonic Antigen (CEA)

STD Screen

35. VD (Syphilis TP Ab)
36. RPR & TPPA (if Syphilis is reactive)

Urine FEME

37. Urine FEME

Plain (Fasting)
 EDTA
 Fluoride
 Mid-stream Urine
 Fresh Stool

8ml GEL
 3ml
 2ml
 20ml

Haematology

1. Full Blood Count
2. ESR
3. ABO Blood Group

Renal Panel

4. Sodium
5. Potassium
6. Chloride
7. Glucose
8. Urea
9. Creatinine

Bone/Joint Function

10. Calcium
11. Phosphate
12. Uric Acid
13. Rheumatoid Factor

Liver Panel

14. Total Bilirubin
15. Total Protein
16. Albumin
17. Globulin
18. A/G Ratio
19. AST/SGOT
20. ALT/SGPT
21. Alkaline Phosphatase
22. GGT

Lipid Panel

23. Cholesterol, Total
24. Cholesterol, HDL
25. Cholesterol, LDL
26. Cholesterol/HDL Ratio
27. Triglycerides

Thyroid Panel

28. Free T4 (FT4)
29. Thyroid Stimulating Hormone (TSH)

Hepatitis Panel

30. Hepatitis Bs Antigen (HBsAg)
31. Hepatitis Bs Antibody (HBsAb)
32. Hepatitis A Total Antibody

Tumour Markers

33. Alpha Fetoprotein (AFP)
34. Carcinoembryonic Antigen (CEA)
35. EBV EA-IgA

STD Screen

36. VD (Syphilis TP Ab)
37. RPR & TPPA (if Syphilis is reactive)

Urine FEME

38. Urine FEME

Stool Analysis

39. Stool Occult Blood

Select ONE Additional Test from List

- a) PSA (male)
- b) CA125 (female)
- c) CA19.9
- d) Beta HCG
- e) HBeAg
- f) HBc Antibody
- g) HCV Antibody
- h) Creatine Kinase (CK)
- i) Ferritin
- j) Glycosylated Hb (HbA1c)

QLS36 QUEST SCREEN QLS36

Plain (Fasting)	8ml GEL
EDTA	3ml
Fluoride	2ml
Mid-stream Urine	20ml
Fresh Stool	

Haematology

1. Full Blood Count
2. ESR

Renal Panel

3. Sodium
4. Potassium
5. Chloride
6. Glucose
7. Urea
8. HbA1c
9. eGFR
10. Creatinine
11. Urine Microalbumin/
Creatinine Ratio

Bone/Joint Function

12. Calcium
13. Phosphate
14. Uric Acid
15. Rheumatoid Factor

Liver Panel

16. Total Bilirubin
17. Total Protein
18. Albumin
19. Globulin
20. A/G Ratio
21. AST/SGOT
22. ALT/SGPT
23. Alkaline Phosphatase
24. GGT

Lipid Panel

25. Cholesterol, Total
26. Cholesterol, HDL
27. Cholesterol, LDL
28. Cholesterol/HDL Ratio
29. Triglycerides

Thyroid Panel

30. Free T4 (FT4)
31. Thyroid Stimulating Hormone
(TSH)

Hepatitis Panel

32. Hepatitis Bs Antigen (HBsAg)
33. Hepatitis Bs Antibody (HBsAb)
34. Hepatitis A Total Antibody
35. Hepatitis C Antibody (HCV)

Tumour Markers

36. Alpha Fetoprotein (AFP)
37. Carcinoembryonic Antigen
(CEA)
38. CA19.9
39. CA125 (female)
40. PSA (male)
41. Beta HCG
42. EBV EA-IgA

STD Screen

43. VD (Syphilis TP Ab)
44. RPR & TPPA (if Syphilis is
reactive)

Urine FEME

45. Urine FEME

Stool Analysis

46. Stool Occult Blood
(Immunological)

ANAEMIA & THALASSEMIA

ANAEMIA &
THALASSEMIA

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ANAEMIA & THALASSEMIA PROFILE SUMMARY

TEST	ANAEMIA											THALASSEMIA				
	ANP1	ANP2	ANP3	ANMA	ANMB	ANMC	ANMD	ANME	ANMG	ANMI	HEL	TH01	TH02	TH03	TH04	TH05
Full Blood Count				◆	◆	◆		◆				◆	◆	◆	◆	◆
ESR												◆				
Peripheral Blood Film									◆							
Reticulocyte Count				◆	◆	◆	◆	◆								◆
Folic Acid	◆	◆				◆	◆		◆							◆
Vitamin B12	◆	◆				◆	◆		◆							◆
Iron	◆		◆			◆	◆	◆						◆		
Total Iron Binding Capacity	◆		◆	◆		◆	◆	◆						◆	◆	
Transferrin	◆		◆											◆		
% Iron Saturation	◆		◆	◆		◆	◆	◆						◆	◆	
Ferritin	◆		◆						◆					◆	◆	◆
Hb Electrophoresis							◆		◆					◆	◆	◆
HbA, HbA2, HbF, HbH											◆			◆	◆	◆

ANAEMIA PROFILE

ANP1 ANAEMIA PROFILE ANP1

6ml Plain

1. Iron
2. % Iron Saturation
3. Ferritin
4. Total Iron Binding Capacity (TIBC)
5. Transferrin
6. Folic Acid
7. Vitamin B12

ANP2 ANAEMIA PROFILE ANP2

6ml Plain

1. Folic Acid
2. Vitamin B12

ANP3 ANAEMIA PROFILE ANP3

6ml Plain

1. Iron
2. Total Iron Binding Capacity (TIBC)
3. Transferrin
4. % Iron Saturation
5. Ferritin

ANMA ANAEMIA PROFILE ANMA

6ml Plain
3ml EDTA

1. Full Blood Count
2. Reticulocyte Count
3. Iron
4. Total Iron Binding Capacity (TIBC)
5. % Iron Saturation

ANMB ANAEMIA PROFILE ANMB

3ml EDTA

1. Full Blood Count
2. Reticulocyte Count

ANMC ANAEMIA PROFILE ANMC

6ml Plain
3ml EDTA

1. Full Blood Count
2. Reticulocyte Count
3. Iron
4. Total Iron Binding Capacity (TIBC)
5. % Iron Saturation
6. Folic Acid
7. Vitamin B12

ANAEMIA PROFILE

ANMD ANAEMIA PROFILE ANMD

6ml Plain
3ml EDTA

- | | |
|---------------------------------------|-----------------------|
| 1. Reticulocyte Count | 5. Folic Acid |
| 2. Iron | 6. Vitamin B12 |
| 3. Total Iron Binding Capacity (TIBC) | 7. Hb Electrophoresis |
| 4. % Iron Saturation | |

ANME ANAEMIA PROFILE ANME

6ml Plain
3ml EDTA

- | | |
|-----------------------|---------------------------------------|
| 1. Full Blood Count | 4. Total Iron Binding Capacity (TIBC) |
| 2. Reticulocyte Count | 5. % Iron Saturation |
| 3. Iron | 6. Hb Electrophoresis |

ANMG ANAEMIA PROFILE ANMG

6ml Plain

- | | |
|---------------|----------------|
| 1. Ferritin | 3. Vitamin B12 |
| 2. Folic Acid | |

ANMI ANAEMIA PROFILE ANMI

6ml Plain
3ml EDTA

- | | |
|--------------------------|-----------------------|
| 1. Peripheral Blood Film | 3. Hb Electrophoresis |
| 2. Ferritin | |

THALASSEMIA PROFILE

HEL HB ELECTROPHORESIS HEL

3ml EDTA

1. HbA, HbA2
2. HbF
3. HbH

TH01 THALASSEMIA SCREEN TH01

6ml Plain
3ml EDTA

1. Full Blood Count
2. ESR
3. Ferritin
4. Hb Electrophoresis

TH02 THALASSEMIA SCREEN TH02

3ml EDTA x 2

1. Full Blood Count
2. Hb Electrophoresis

TH03 THALASSEMIA SCREEN TH03

6ml Plain
3ml EDTA

1. Full Blood Count
2. Ferritin
3. Hb Electrophoresis

TH04 THALASSEMIA SCREEN TH04

8ml GEL
3ml EDTA

1. Full Blood Count
2. Hb Electrophoresis
3. Iron
4. Total Iron Binding Capacity (TIBC)
5. Transferrin
6. % Iron Saturation
7. Ferritin

TH05 THALASSEMIA SCREEN TH05

6ml Plain
3ml EDTA

1. Full Blood Count
2. Ferritin
3. Vitamin B12
4. Folic Acid
5. Hb Electrophoresis

ANTENATAL & MISCARRIAGE

ANTENATAL &
MISCARRIAGE

quest
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Trust the Track Record

The ThinPrep® Pap test is the only Pap test with FDA-approved labeling citing multiple peer-reviewed publications supporting increased glandular disease detection.

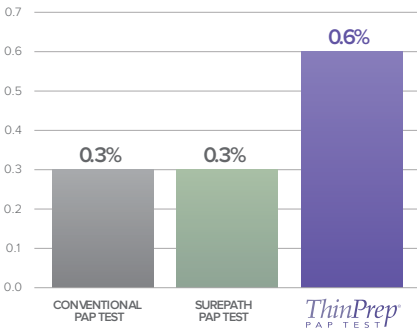
- ▶ **59.7% higher HSIL detection** than conventional Pap testing.^{3†}
- ▶ **90% of the Top 50 U.S. Best Hospitals for Gynecology** use the ThinPrep® Pap test.^{1,2†}
- ▶ **The only Pap test FDA-approved** for improved ability to detect glandular disease compared to conventional Pap.³
- ▶ **Significantly more effective** than conventional Pap smear for the detection of LSIL and more severe lesions.^{3†}
- ▶ **The first FDA-approved** collection media for use with all FDA-approved HPV tests.⁵



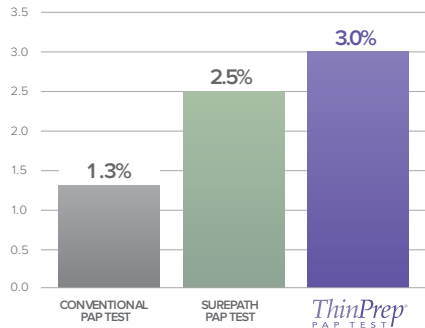
HSIL and LSIL Categorization

The College of American Pathologists reported increased HSIL and LSIL categorization rates in labs that used the ThinPrep Pap test in 679 U.S. laboratories.⁴

HSIL Reporting Rate % (50th pctl)⁴



LSIL Reporting Rate % (50th pctl)⁴



References **1.** Hologic, Inc. Data on File. **2.** US News & World Report. Best Hospitals for Adult Gynecology. <http://health.usnews.com/best-hospitals/rankings/gynecology>. Published 2016. Accessed April 18, 2016. **3.** ThinPrep 2000 System [package insert]. MAN-02060-002 Rev. 001. Marlborough, MA: Hologic, Inc.; 2011. **4.** Eversole GM, et al. Practices of participants in the college of American pathologists interlaboratory comparison program in cervicovaginal cytology, 2006. Arch Pathol Lab Med. 2010;134(3):331-5. doi:10.1043/1543-2165-134.3.331. **5.** The ThinPrep 2000 System is significantly more effective than conventional Pap smear for detection of low-grade squamous intraepithelial (LSIL) and severe lesions in a variety of patient populations. **†** U.S. News & World Report data correlated with Hologic ordering data. **‡** The ThinPrep® 2000 System is significantly more effective than conventional Pap smear for detection of low-grade squamous intraepithelial (LSIL) and severe lesions in a variety of patient populations. **§** Aptima® HPV assay, Aptima® HPV 16/18/45 Genotype assay, Cervista® HPV HR Test, Cervista® HPV 16/18 Test, Roche cobas HPV Test and Hybrid Capture 2 HPV DNA test.

ANTENATAL & MISCARRIAGE PROFILE SUMMARY

TEST	ANTENATAL PROFILE																MISCARRIAGE PROFILE					
	QAN1	QAN2	QAN3	QAN4	QAN5	QAN6	QAN7	QAN8	QAN9	QAN10	QAN11	QAN12	QAN13	QAN14	QAN15	QAN16	TS01	FTMT	FTMTR	PRECLAM	MCPC	
	Full Blood Count	♦							♦					♦								
Haemoglobin				♦	♦	♦	♦															
Red Blood Cell Indices (MCV, MCH, MCHC)				♦	♦	♦	♦															
ABO Blood Group	♦	♦		♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦						
Glucose	♦	♦																				
Hepatitis Bs Antigen (HBsAg)	♦	♦		♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦						
Hepatitis Bs Antibody (HBsAb)	♦	♦		♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦						
Rubella IgG Antibody	♦	♦		♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦						
Hb Electrophoresis	♦																					
Toxoplasma IgG Antibody								♦														
Candida Antibody								♦														
Chlamydia & Gonorrhoea PCR								♦														
Herpes Type 1 IgG Antibody								♦														
Herpes Type 2 IgG Antibody								♦														
HIV Ag/Ab Screen	♦	♦		♦																		
Urine FEME																						♦
VD (Syphilis TP Ab)	♦	♦		♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦						
RPR & TPPA (if Syphilis is reactive)	♦	♦		♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦						
CMV / IgG Antibody																						♦
Alpha Fetoprotein (AFP)																						
Unconjugated Estriol																						
Free Beta HCG																						
PAPP-A																						
Risk Report																						
Beta HCG																						
Anti Nuclear Antibody																						
Anti-ds DNA																						
Lupus Anticoagulant																						
Thyroid Stimulating Hormone (TSH)																						
Free T3 (FT3)																						
Free T4 (FT4)																						
Placenta Growth Factor (PGF)																						♦

ANTENATAL PROFILE

QAN1 ANTENATAL PROFILE QAN1

8ml GEL
3ml EDTA

3ml Fluoride

- | | |
|----------------------------------|--|
| 1. Full Blood Count | 6. Rubella IgG Antibody |
| 2. Hb Electrophoresis | 7. Glucose |
| 3. ABO Blood Group | 8. HIV Ag/Ab Screen |
| 4. Hepatitis Bs Antigen (HBsAg) | 9. VD (Syphilis TP Ab) |
| 5. Hepatitis Bs Antibody (HBsAb) | 10. RPR & TPPA (if Syphilis is reactive) |

QAN2 ANTENATAL PROFILE QAN2

6ml Plain
3ml EDTA

3ml Fluoride

- | | |
|----------------------------------|---|
| 1. Full Blood Count | 6. Rubella IgG Antibody |
| 2. ABO Blood Group | 7. VD (Syphilis TP Ab) |
| 3. Glucose | 8. RPR & TPPA (if Syphilis is reactive) |
| 4. Hepatitis Bs Antigen (HBsAg) | 9. HIV Ag/Ab Screen |
| 5. Hepatitis Bs Antibody (HBsAb) | |

QAN3 ANTENATAL PROFILE QAN3

6ml Plain
3ml EDTA

20ml Mid-stream Urine

- | | |
|----------------------------------|---|
| 1. Full Blood Count | 5. RPR & TPPA (if Syphilis is reactive) |
| 2. Hepatitis Bs Antigen (HBsAg) | 6. HIV Ag/Ab Screen |
| 3. Hepatitis Bs Antibody (HBsAb) | 7. Urine FEME |
| 4. VD (Syphilis TP Ab) | |

QAN4 ANTENATAL PROFILE QAN4

6ml Plain
3ml EDTA

- | | |
|---|---|
| 1. Haemoglobin | 4. Hepatitis Bs Antigen (HBsAg) |
| 2. Red Blood Cell Indices
(MCV, MCH, MCHC) | 5. Hepatitis Bs Antibody (HBsAb) |
| 3. ABO Blood Group | 6. VD (Syphilis TP Ab) |
| | 7. RPR & TPPA (if Syphilis is reactive) |

QAN5 ANTENATAL PROFILE QAN5

6ml Plain
3ml EDTA

- | | |
|---|---|
| 1. Haemoglobin | 5. Hepatitis Bs Antibody (HBsAb) |
| 2. Red Blood Cell Indices
(MCV, MCH, MCHC) | 6. Rubella IgG Antibody |
| 3. ABO Blood Group | 7. VD (Syphilis TP Ab) |
| 4. Hepatitis Bs Antigen (HBsAg) | 8. RPR & TPPA (if Syphilis is reactive) |

ANTENATAL PROFILE

QAN6 ANTENATAL PROFILE QAN6

6ml Plain
3ml EDTA

- | | |
|---|---|
| 1. Haemoglobin | 6. Rubella IgG Antibody |
| 2. Red Blood Cell Indices
(MCV, MCH, MCHC) | 7. VD (Syphilis TP Ab) |
| 3. ABO Blood Group | 8. RPR & TPPA (if Syphilis is reactive) |
| 4. Hepatitis Bs Antigen (HBsAg) | 9. HIV Ag/Ab Screen |
| 5. Hepatitis Bs Antibody (HBsAb) | |

QAN7 ANTENATAL PROFILE QAN7

6ml Plain
3ml EDTA

- | | |
|---|---|
| 1. Haemoglobin | 4. RPR & TPPA (if Syphilis is reactive) |
| 2. Red Blood Cell Indices
(MCV, MCH, MCHC) | 5. HIV Ag/Ab Screen |
| 3. VD (Syphilis TP Ab) | |

QAN8 ANTENATAL PROFILE QAN8

6ml Plain
3ml EDTA

3ml Fluoride
20ml Mid-stream Urine

- | | |
|----------------------------------|---|
| 1. Full Blood Count | 6. Rubella IgG Antibody |
| 2. ABO Blood Group | 7. VD (Syphilis TP Ab) |
| 3. Glucose | 8. RPR & TPPA (if Syphilis is reactive) |
| 4. Hepatitis Bs Antigen (HBsAg) | 9. Urine FEME |
| 5. Hepatitis Bs Antibody (HBsAb) | |

QAN9 ANTENATAL PROFILE QAN9

8ml GEL
3ml EDTA
Dry Swab (Female – Endocervical / HVS Swab)

3ml Fluoride
20ml Mid-stream Urine

- | | |
|----------------------------------|--|
| 1. Full Blood Count | 8. Chlamydia & Gonorrhoea PCR |
| 2. ABO Blood Group | 9. Candida Antibody |
| 3. Glucose | 10. Herpes Simplex Virus Type I IgG |
| 4. Hepatitis Bs Antigen (HBsAg) | 11. Herpes Simplex Virus Type II IgG |
| 5. Hepatitis Bs Antibody (HBsAb) | 12. VD (Syphilis TP Ab) |
| 6. Rubella IgG Antibody | 13. RPR & TPPA (if Syphilis is reactive) |
| 7. Toxoplasma IgG | 14. Urine FEME |

QAN10 ANTENATAL PROFILE QAN10

6ml Plain
3ml EDTA

- | | |
|---------------------------------|---|
| 1. Haemoglobin | 4. Rubella IgG Antibody |
| 2. ABO Blood Group | 5. VD (Syphilis TP Ab) |
| 3. Hepatitis Bs Antigen (HBsAg) | 6. RPR & TPPA (if Syphilis is reactive) |

ANTENATAL PROFILE

QAN11 ANTENATAL PROFILE QAN11

6ml Plain
3ml EDTA

1. Haemoglobin
2. ABO Blood Group
3. Hepatitis Bs Antigen (HBsAg)
4. Hepatitis Bs Antibody (HBsAb)
5. VD (Syphilis TP Ab)
6. RPR & TPPA (if Syphilis is reactive)

QAN12 ANTENATAL PROFILE QAN12

6ml Plain
3ml EDTA

1. Haemoglobin
2. Red Blood Cell Indices (MCV, MCH, MCHC)
3. ABO Blood Group
4. Hepatitis Bs Antigen (HBsAg)
5. Hepatitis Bs Antibody (HBsAb)
6. Rubella IgG Antibody
7. VD (Syphilis TP Ab)
8. RPR & TPPA (if Syphilis is reactive)

QAN13 ANTENATAL PROFILE QAN13

8ml GEL
3ml EDTA

1. Haemoglobin
2. Red Blood Cell Indices (MCV, MCH, MCHC)
3. ABO Blood Group
4. Hepatitis Bs Antigen (HBsAg)
5. Hepatitis Bs Antibody (HBsAb)
6. Rubella IgG Antibody
7. VD (Syphilis TP Ab)
8. RPR & TPPA (if Syphilis is reactive)
9. Alpha Fetoprotein (AFP)

QAN14 ANTENATAL PROFILE QAN14

6ml Plain
3ml EDTA

1. Full Blood Count
2. ABO Blood Group
3. Hepatitis Bs Antigen (HBsAg)
4. Rubella IgG Antibody
5. VD (Syphilis TP Ab)
6. RPR & TPPA (if Syphilis is reactive)

QAN15 ANTENATAL PROFILE QAN15

6ml Plain
3ml EDTA

20ml Mid-stream Urine

1. Haemoglobin
2. Hepatitis Bs Antigen (HBsAg)
3. Urine FEME

ANTENATAL PROFILE

QAN16 ANTENATAL PROFILE QAN16

6ml Plain
3ml EDTA

20ml Mid-stream Urine

- | | |
|--|---|
| 1. Haemoglobin | 5. Hepatitis Bs Antibody (HBsAb) |
| 2. Red Blood Cell Indices (MCV, MCH, MCHC) | 6. Rubella IgG Antibody |
| 3. ABO Blood Group | 7. Hb Electrophoresis |
| 4. Hepatitis Bs Antigen (HBsAg) | 8. VD (Syphilis TP Ab) |
| | 9. RPR & TPPA (if Syphilis is reactive) |

TS01 TORCH STUDIES TS01

8ml GEL

- | | |
|----------------------------|-------------------------------------|
| 1. Toxoplasma IgG Antibody | 4. Herpes Simplex Virus Type I IgG |
| 2. Rubella IgG Antibody | 5. Herpes Simplex Virus Type II IgG |
| 3. CMV IgG Antibody | |

FTMT FIRST TRIMESTER TESTING

(< 14 Weeks Gestation – with Risk Calculation)

6ml Plain

- | | |
|------------------|----------------|
| 1. Free Beta HCG | 3. Risk Report |
| 2. PAPP-A | |

Kindly furnish patient's clinical information e.g. LMP, ultrasound scan date, CRL result in mm, etc., on the Prenatal Risk Screening for Down Syndrome Form. Please contact Lab for form.

FTMTR FIRST TRIMESTER TESTING

(< 14 Weeks Gestation – without Risk Calculation)

6ml Plain

- Free Beta HCG
- PAPP-A

PRECLAM PRE-ECLAMPSIA PROFILE

(> 10 Weeks Gestation – with Risk Calculation)

6ml Plain

- | | |
|----------------------------------|----------------|
| 1. Placenta Growth Factor (PLGF) | 3. Risk Report |
| 2. PAPP-A | |

Kindly furnish patient's clinical information e.g. LMP, ultrasound scan date, CRL result in mm, BP of left and right arm etc., on the Prenatal Risk Screening for Pre-eclampsia Form. Please contact Lab for form.

MISCARRIAGE PROFILE

MCPC MISCARRIAGE PROFILE MCPC

8ml GEL

2.7ml Sodium Citrate

20ml Mid-stream Urine

- | | |
|--------------------------|--------------------------------------|
| 1. Beta HCG | 5. Thyroid Stimulating Hormone (TSH) |
| 2. Anti Nuclear Antibody | 6. Free T3 |
| 3. Anti-ds DNA | 7. Free T4 |
| 4. Lupus Anticoagulant | 8. Urine FEME |

ARTHRITIS/ AUTO-IMMUNE/LUPUS

ARTHRITIS/
AUTO-IMMUNE/LUPUS

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ARTHRITIS/BONE/AUTO-IMMUNE/ LUPUS PROFILE SUMMARY

TEST	ARTHRITIS			BONE		AUTO-IMMUNE			LUPUS				
	AR01	AR02	QAR3	QAR4	BNSVD3	AIO1	SLEP	SLES	QLP1	QLP2	QLP3	QLP4	QLP5
Full Blood Count	♦	♦	♦			♦	♦			♦	♦	♦	
Reticulocyte Count										♦			
ESR	♦	♦	♦	♦		♦	♦	♦		♦		♦	♦
Albumin							♦					♦	
Alkaline Phosphatase					♦								
Alkaline Phosphatase (heat stable)													
Urea							♦					♦	
Creatinine							♦			♦	♦	♦	
Creatine Kinase										♦			
Uric Acid	♦	♦	♦			♦							
C3 Complement							♦		♦	♦	♦		
C4 Complement							♦		♦	♦	♦		
Anti-ds DNA			♦			♦	♦	♦	♦	♦	♦	♦	♦
Anti Nuclear Factor (ANF)	♦	♦	♦	♦		♦	♦	♦	♦	♦		♦	♦
Anti Streptolysin O Titre (ASOT)		♦	♦	♦									
Calcium					♦								
Rheumatoid Factor (RF)	♦	♦	♦	♦		♦	♦		♦			♦	
Direct Coomb's Test										♦			
C-Reactive Protein (wr-CRP)	♦	♦	♦	♦									
Phosphate					♦								
VD (Syphilis TP Ab)		♦											
RPR & TPPA (if Syphilis is reactive)		♦											
Total Vitamin D (Immunoassay)					♦								
Urine FEME							♦			♦	♦	♦	♦

ARTHRITIS/BONE PROFILE

AR01 ARTHRITIS PROFILE AR01

6ml Plain
3ml EDTA

- | | |
|---------------------------|--------------------------------|
| 1. Full Blood Count | 4. Anti Nuclear Factor (ANF) |
| 2. ESR | 5. Uric Acid |
| 3. Rheumatoid Factor (RF) | 6. C-Reactive Protein (wr-CRP) |

AR02 ARTHRITIS PROFILE AR02

6ml Plain
3ml EDTA

- | | |
|--------------------------------|---|
| 1. Full Blood Count | 6. Anti Streptolysin O Titre (ASOT) |
| 2. ESR | 7. Anti Nuclear Factor (ANF) |
| 3. Rheumatoid Factor (RF) | 8. VD (Syphilis TP Ab) |
| 4. C-Reactive Protein (wr-CRP) | 9. RPR & TPPA (if Syphilis is reactive) |
| 5. Uric Acid | |

QAR3 ARTHRITIS PROFILE QAR3

6ml Plain
3ml EDTA

- | | |
|---------------------------|-------------------------------------|
| 1. Full Blood Count | 5. Anti Nuclear Factor (ANF) |
| 2. ESR | 6. Anti Streptolysin O Titre (ASOT) |
| 3. Rheumatoid Factor (RF) | 7. C-Reactive Protein (wr-CRP) |
| 4. Uric Acid | 8. Anti-ds DNA |

QAR4 ARTHRITIS PROFILE QAR4

6ml Plain
3ml EDTA

- | | |
|-------------------------------------|--------------------------------|
| 1. ESR | 4. Rheumatoid Factor (RF) |
| 2. Anti Nuclear Factor (ANF) | 5. C-Reactive Protein (wr-CRP) |
| 3. Anti Streptolysin O Titre (ASOT) | |

BNSVD3 BONE STUDY BNSVD3

5ml Plain

- | | |
|--------------|----------------------------------|
| 1. Calcium | 3. Alkaline Phosphatase |
| 2. Phosphate | 4. Total Vitamin D (Immunoassay) |

AUTO-IMMUNE PROFILE

AI01 AUTO-IMMUNE PROFILE AI01

6ml Plain
3ml EDTA

- | | |
|---------------------------|------------------------------|
| 1. Full Blood Count | 4. Anti Nuclear Factor (ANF) |
| 2. ESR | 5. Uric Acid |
| 3. Rheumatoid Factor (RF) | 6. Anti-ds DNA |

SLEP SLE PROFILE SLEP

8ml GEL
3ml EDTA

50ml Mid-stream Urine

- | | |
|---------------------|------------------------------|
| 1. Full Blood Count | 7. Albumin |
| 2. ESR | 8. Rheumatoid Factor (RF) |
| 3. Urea | 9. Anti Nuclear Factor (ANF) |
| 4. Creatinine | 10. Anti-ds DNA |
| 5. C3 Complement | 11. Urine FEME |
| 6. C4 Complement | |

SLES SLE SCREEN SLES

6ml Plain
3ml EDTA

- | | |
|------------------------------|----------------|
| 1. Anti Nuclear Factor (ANF) | 3. Anti-ds DNA |
| 2. ESR | |

LUPUS PROFILE

QLP1 LUPUS PROFILE QLP1

8ml GEL

1. Anti Nuclear Factor (ANF)
2. Anti-ds DNA
3. C3 Complement
4. C4 Complement
5. Rheumatoid Factor (RF)

QLP2 LUPUS PROFILE QLP2

8ml GEL
4ml EDTA

20ml Urine

1. Anti Nuclear Factor (ANF)
2. Anti-ds DNA
3. C3 Complement
4. C4 Complement
5. Full Blood Count
6. Albumin
7. Creatinine
8. Creatine Kinase (CK)
9. Reticulocyte Count
10. Direct Coomb's Test
11. Urine FEME

QLP3 LUPUS PROFILE QLP3

8ml GEL
3ml EDTA

20ml Urine

1. Full Blood Count
2. Anti-ds DNA
3. C3 Complement
4. C4 Complement
5. Albumin
6. Creatinine
7. Urine FEME

QLP4 LUPUS PROFILE QLP4

6ml Plain
3ml EDTA

20ml Urine

1. Full Blood Count
2. ESR
3. Albumin
4. Urea
5. Creatinine
6. Anti-ds DNA
7. Anti Nuclear Factor (ANF)
8. Rheumatoid Factor (RF)
9. Urine FEME

QLP5 LUPUS PROFILE QLP5

6ml Plain
3ml EDTA

1. Anti-ds DNA
2. Anti Nuclear Factor (ANF)
3. ESR

ALLERGY

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ALLERGY PROFILE SUMMARY

TEST	INHALE1	INHALE2	ECZEMA	PAEDS	SEAFOOD
Total IgE					
Dust – Greer H1	◆				
Cat Dander E1	◆		◆		
Dog Epithelium E2	◆		◆		
Dog Dander E5	◆		◆		
Bermuda Grass G2	◆				
Bahia Grass G17	◆				
Cockroach I6	◆				
Penicillium notatum M1		◆			
Caldosporium herbarum M2		◆			
Aspergillus fumigatus M3		◆			
Candida albicans M5		◆			
Alternaria alternata M6	◆	◆			
D. pteronyssinus D1	◆		◆		
D. farinae D2	◆				
Blomia tropicalis D201	◆				
Wheat F4				◆	
Corn F8				◆	
Sesame Seed F10				◆	
Peanut F13			◆	◆	
Soya Bean F14			◆	◆	
Hazelnut F17			◆		
Gluten F79				◆	
Cacao (cocoa) F93				◆	
Egg White F1			◆	◆	
Milk F2			◆	◆	
Chicken F83				◆	
Fish (cod) F3			◆	◆	◆
Crab F23					◆
Shrimp F24			◆		◆
Tuna F40					◆
Salmon F41					◆
Clam F207					◆
Squid F258					◆
Anchovies (ikan bilis) F313				◆	◆

ALLERGY PROFILE

INHALE1 **INHALENT PANEL 1 – DUST/MITES/EPIDERMALS/POLLENS (11)**

8ml GEL

- | | |
|------------------------|-----------------------------|
| 1. Dog Epithelium E2 | 7. Blomia tropicalis D201 |
| 2. Dog Dander E5 | 8. Bermuda Grass G2 |
| 3. Cat Dander E1 | 9. Bahia Grass G17 |
| 4. Cockroach I6 | 10. Dust – Greer H1 |
| 5. D. pteronyssinus D1 | 11. Alternaria alternata M6 |
| 6. D. farinae D2 | |

INHALE2 **INHALENT PANEL 2 – MOLDS & YEASTS (5)**

8ml GEL

- | | |
|-----------------------------|-----------------------------|
| 1. Aspergillus fumigatus M3 | 4. Cladosporium herbarum M2 |
| 2. Penicillium notatum M1 | 5. Candida albicans M5 |
| 3. Alternaria alternata M6 | |

ECZEMA **ECZEMA PANEL (11)**

8ml GEL

- | | |
|------------------------|-------------------|
| 1. Egg White F1 | 7. Peanut F13 |
| 2. Milk F2 | 8. Hazelnut F17 |
| 3. Cat Dander E1 | 9. Soya Bean F14 |
| 4. Dog Epithelium E2 | 10. Fish (cod) F3 |
| 5. Dog Dander E5 | 11. Shrimp F24 |
| 6. D. pteronyssinus D1 | |

PAEDS **PAEDIATRIC/COMMON ALLERGY PANEL (12)**

8ml GEL

- | | |
|--------------------------------|---------------------|
| 1. Egg White F1 | 7. Peanut F13 |
| 2. Milk F2 | 8. Soya Bean F14 |
| 3. Chicken F83 | 9. Wheat F4 |
| 4. Anchovies (ikan bilis) F313 | 10. Corn F8 |
| 5. Fish (cod) F3 | 11. Gluten F79 |
| 6. Cacao (cocoa) F93 | 12. Sesame Seed F10 |

ALLERGY PROFILE

SEAFOOD

SEAFOOD PANEL (8)

8ml GEL

- | | |
|---------------|--------------------------------|
| 1. Shrimp F24 | 5. Fish (cod) F3 |
| 2. Squid F258 | 6. Salmon F41 |
| 3. Clam F207 | 7. Tuna F40 |
| 4. Crab F23 | 8. Anchovies (ikan bilis) F313 |

SINGLE ALLERGEN

ANY 1 TEST

8ml GEL

- | | |
|------------------------------|---------------------------------|
| 1. Total IgE | 22. Hazelnut F17 |
| 2. Dust – Greer H1 | 23. Gluten F79 |
| 3. Cat Dander E1 | 24. Cacao (cocoa) F93 |
| 4. Dog Epithelium E2 | 25. Egg White F1 |
| 5. Dog Dander E5 | 26. Milk F2 |
| 6. Bermuda Grass G2 | 27. Chicken F83 |
| 7. Bahia Grass G17 | 28. Buckwheat F11 |
| 8. Cockroach I6 | 29. Almond F20 |
| 9. Penicillium notatum M1 | 30. Strawberry F44 |
| 10. Cladosporium herbarum M2 | 31. Mango F91 |
| 11. Aspergillus fumigatus M3 | 32. Honey F247 |
| 12. Candida albicans M5 | 33. Yam F97 |
| 13. Alternaria alternata M6 | 34. Fish (cod) F3 |
| 14. D. pteronyssinus D1 | 35. Crab F23 |
| 15. D. farinae D2 | 36. Shrimp F24 |
| 16. Blomia tropicalis D201 | 37. Tuna F40 |
| 17. Wheat F4 | 38. Salmon F41 |
| 18. Corn F8 | 39. Clam F207 |
| 19. Sesame Seed F10 | 40. Squid F258 |
| 20. Peanut F13 | 41. Anchovies (ikan bilis) F313 |
| 21. Soybean F14 | |

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CANCER

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Abbott RealTime High-Risk HPV Assay Optimising Cervical Cancer Screening

High clinical specificity matters in cervical cancer screening.

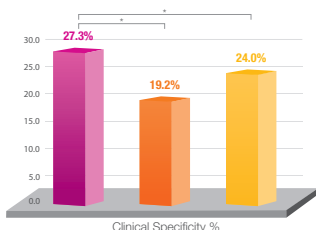
Clinical specificity of high-risk HPV DNA tests used in cervical cancer screening significantly impacts colposcopy referral rates and cost of further clinical follow-up. In order to identify women with high-grade cervical disease and to minimise unnecessary follow-up procedures in HPV positive women without cervical lesions, it is recommended that HPV tests used in cervical cancer screening have an optimal balance of clinical sensitivity and clinical specificity.¹³



Abbott RealTime High Risk HPV demonstrated equivalent performance in sensitivity compared to other tests evaluated for primary cervical cancer screening. Clinical specificity of the Abbott RealTime High Risk HPV assay significantly exceeded that of other DNA-based assays.

Clinically proven performance.

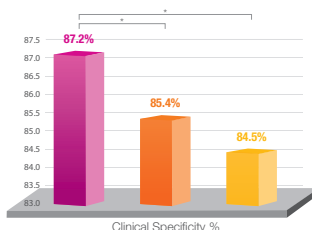
Referral population



Adapted from: Szarewski A et al 2012 (Predictors 2)¹⁴

*Difference statistically significant

Screening population



Adapted from: Cuzick J et al 2013 (Predictors 3)¹⁵

*Difference statistically significant

■ = Abbott RealTime ■ = Comparator A: Signal Amplification-based ■ = Comparator B: Multiplex real-time PCR-based

Abbott RealTime High Risk HPV. Significantly higher clinical specificity that can prevent women from unnecessary follow-up procedures.

CANCER SCREEN PROFILE SUMMARY

TEST	CA01	CA01R	CA02	CA03	CA04	CA05	CA06	CA07	CA08	CA09	CA10	ROMA
Alpha Fetoprotein (AFP)	◆	◆	◆	◆	◆				◆	◆	◆	
Carcinoembryonic Antigen (CEA)	◆	◆	◆	◆	◆				◆	◆	◆	
CA19.9	◆	◆	◆		◆	◆		◆	◆	◆		
CA125	◆	◆		◆		◆				◆		◆
CA15.3	◆	◆			◆	◆						
Prostate Specific Antigen (PSA)			◆		◆		◆	◆	◆		◆	
Free PSA %									◆			
EBV EA-IgA						◆		◆				
HE4		◆										◆
ROMA Index		◆										◆
Beta HCG	◆	◆	◆	◆			◆	◆		◆	◆	
Stool Occult Blood (Immunological)					◆				◆			

CANCER SCREEN PROFILE

CA01 CANCER SCREEN CA01 (FEMALE)

8ml GEL

- | | |
|-----------------------------------|-------------|
| 1. Alpha Fetoprotein (AFP) | 4. CA125 |
| 2. Carcinoembryonic Antigen (CEA) | 5. Beta HCG |
| 3. CA19.9 | 6. CA15.3 |

CA01R CANCER SCREEN CA01R (FEMALE)

8ml GEL

- | | |
|-----------------------------------|---------------|
| 1. Alpha Fetoprotein (AFP) | 5. Beta HCG |
| 2. Carcinoembryonic Antigen (CEA) | 6. CA15.3 |
| 3. CA19.9 | 7. HE4 |
| 4. CA125 | 8. ROMA Index |

CA02 CANCER SCREEN CA02 (MALE)

8ml GEL

- | | |
|-----------------------------------|------------------------------------|
| 1. Alpha Fetoprotein (AFP) | 4. Prostate Specific Antigen (PSA) |
| 2. Carcinoembryonic Antigen (CEA) | 5. Beta HCG |
| 3. CA19.9 | |

CA03 CANCER SCREEN CA03 (FEMALE)

8ml GEL

- | | |
|-----------------------------------|-------------|
| 1. Alpha Fetoprotein (AFP) | 3. CA125 |
| 2. Carcinoembryonic Antigen (CEA) | 4. Beta HCG |

CA04 CANCER SCREEN CA04 (MALE)

8ml GEL

Fresh Stool

- | | |
|-----------------------------------|---------------------------------------|
| 1. Alpha Fetoprotein (AFP) | 4. Prostate Specific Antigen (PSA) |
| 2. Carcinoembryonic Antigen (CEA) | 5. Stool Occult Blood (Immunological) |
| 3. CA19.9 | |

CA05 CANCER SCREEN CA05 (FEMALE)

8ml GEL

- | | |
|-----------|---------------|
| 1. CA19.9 | 3. CA15.3 |
| 2. CA125 | 4. EBV EA-IgA |

CA06 CANCER SCREEN CA06 (MALE)

8ml GEL

- | | |
|-------------|------------------------------------|
| 1. Beta HCG | 3. Prostate Specific Antigen (PSA) |
| 2. CA19.9 | |

CANCER SCREEN PROFILE

CA07 CANCER SCREEN CA07 (MALE)

8ml GEL

1. Beta HCG
2. CA19.9
3. Prostate Specific Antigen (PSA)
4. EBV EA-IgA

CA08 CANCER SCREEN CA08 (MALE)

8ml GEL

Fresh Stool

1. Alpha Fetoprotein (AFP)
2. Carcinoembryonic Antigen (CEA)
3. CA19.9
4. Prostate Specific Antigen (PSA)
5. Free PSA %
6. Stool Occult Blood (Immunological)

CA09 CANCER SCREEN CA09 (FEMALE)

8ml GEL

1. Alpha Fetoprotein (AFP)
2. Carcinoembryonic Antigen (CEA)
3. CA19.9
4. CA125
5. Beta HCG

CA10 CANCER SCREEN CA10 (MALE)

8ml GEL

1. Alpha Fetoprotein(AFP)
2. Carcinoembryonic Antigen (CEA)
3. CA19.9
4. Prostate Specific Antigen (PSA)
5. Beta HCG

ROMA ROMA (RISK OF OVARIAN MALIGNANCY ALGORITHM)

8ml GEL

1. HE4
2. CA125
3. ROMA Index

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CORONARY RISK/ CARDIAC ENZYME/LIPID

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CORONARY RISK, CARDIAC ENZYME & LIPID PROFILE SUMMARY

TEST	CE01	CE01N	AT01	LP01	LP01HM	CR08	CR09	LP01G	LPU	LP01C	LP01U	LP01A	LPH	LP013	LP015	LP011	LP016	LP02	LPB	LP012	LP014	LP017	
Cholesterol, Total			◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cholesterol, HDL			◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cholesterol, LDL			◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cholesterol/HDL Ratio			◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Triglycerides			◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Glucose			◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Urea			◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Creatinine			◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Uric Acid			◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
HbA1c													◆										
ALT/SGPT																							
AST/SGOT	◆	◆																					
Apolipoprotein A1																				◆			
Apolipoprotein B																				◆			
Apo B/A1 Ratio																							
C-Reactive Protein																							
Homocysteine																							
Creatine Kinase (CK)	◆	◆																					
LDH	◆	◆																					
CK-MB	◆	◆																					
NT-proBNP		◆																					
Lipoprotein(a)							◆																

CORONARY RISK, CARDIAC ENZYME & LIPID PROFILE

CE01 CARDIAC ENZYME PROFILE CE01

6ml Plain

- | | |
|--------------------|----------|
| 1. Creatine Kinase | 3. LDH |
| 2. AST/SGOT | 4. CK-MB |

CE01N CARDIAC ENZYME PROFILE CE01N

6ml Plain

- | | |
|--------------------|--------------|
| 1. Creatine Kinase | 4. CK-MB |
| 2. AST/SGOT | 5. NT-proBNP |
| 3. LDH | |

AT01 ATHEROSCLEROSIS PROFILE 1 AT01

6ml Plain (Fasting)
3ml Fluoride

- | | |
|--------------------------|---------------|
| 1. Cholesterol, Total | 6. Glucose |
| 2. Cholesterol, HDL | 7. Urea |
| 3. Cholesterol, LDL | 8. Creatinine |
| 4. Cholesterol/HDL Ratio | 9. Uric Acid |
| 5. Triglycerides | |

LP01 LIPID PROFILE A LP01

6ml Plain (Fasting)

- | | |
|-----------------------|--------------------------|
| 1. Cholesterol, Total | 4. Cholesterol/HDL Ratio |
| 2. Cholesterol, HDL | 5. Triglycerides |
| 3. Cholesterol, LDL | |

LP01HM CARDIAC RISK ASSESSMENT PROFILE LP01HM

6ml Plain (Fasting)
3ml EDTA (Send Sample on Ice)

- | | |
|--------------------------|--------------------------------|
| 1. Cholesterol, Total | 5. Triglycerides |
| 2. Cholesterol, HDL | 6. C-Reactive Protein (wr-CRP) |
| 3. Cholesterol, LDL | 7. Homocysteine |
| 4. Cholesterol/HDL Ratio | |

CR08 CARDIAC RISK ASSESSMENT PROFILE CR08

6ml Plain (Fasting)

- | | |
|--------------------------|--------------------------------|
| 1. Cholesterol, Total | 6. C-Reactive Protein (wr-CRP) |
| 2. Cholesterol, HDL | 7. Apolipoprotein A1 |
| 3. Cholesterol, LDL | 8. Apolipoprotein B |
| 4. Cholesterol/HDL Ratio | 9. Apolipoprotein B/A1 Ratio |
| 5. Triglycerides | |

CR09 CARDIAC RISK ASSESSMENT PROFILE CR09

6ml Plain (Fasting)

- | | |
|-----------------------|--------------------------|
| 1. Cholesterol, Total | 4. Cholesterol/HDL Ratio |
| 2. Cholesterol, HDL | 5. Triglycerides |
| 3. Cholesterol, LDL | 6. Lipoprotein(a) |

CORONARY RISK, CARDIAC ENZYME & LIPID PROFILE

LIPID PROFILE A PLUS ONE TEST

LP01G *	LP01 + Glucose
LPU	LP01 + Urea
LP01C	LP01 + Creatinine
LP01U	LP01 + Uric Acid
LP01A	LP01 + ALT/SGPT
LPH **	LP01 + HbA1c

LIPID PROFILE A PLUS TWO TESTS

LP013 *	LP01G + Urea
LP015 *	LP01G + Creatinine
LP011 *	LP01G + Uric Acid
LP016 * **	LP01G + HbA1c
LP02	LP01 + ALT/SGPT + AST/SGOT
LPB	LP01 + Apolipoprotein A1 & B

LIPID PROFILE A PLUS THREE/FOUR TESTS

LP012 (CRSD) *	LP01 + Glucose + ALT/SGPT + AST/SGOT
LP014	LP01 + Uric Acid + ALT/SGPT + AST/SGOT
LP017 (CRA1) *	LP01 + Glucose + ALT/SGPT + AST/SGOT + Uric Acid

* 2ml Fluoride is required for profiles with Glucose.

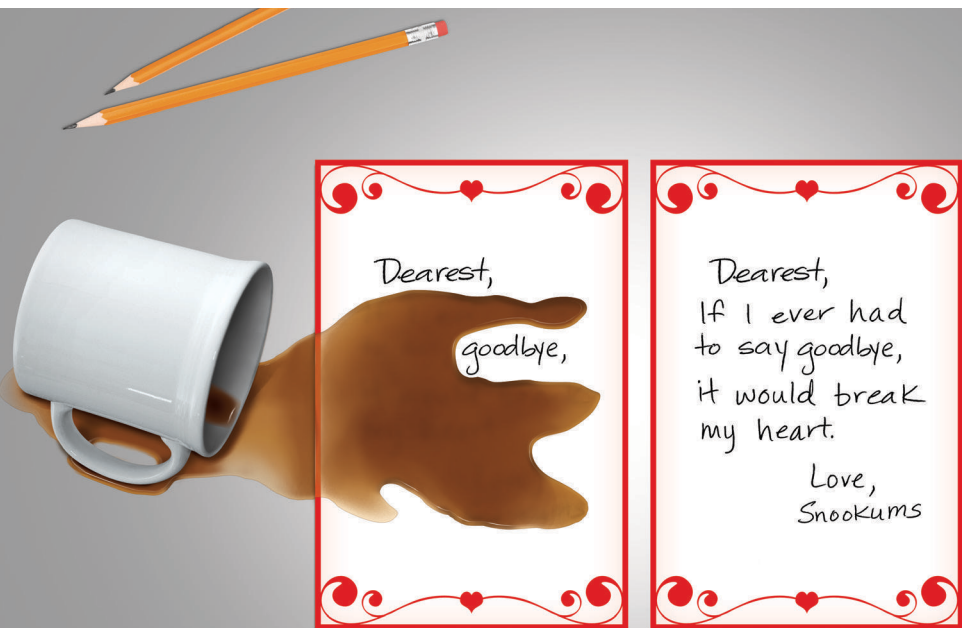
** 3ml EDTA is required for profiles with HbA1c.

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DIABETIC & HYPERTENSION

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See the Difference

Bio-Rad HPLC Lets You See the Whole Picture

Bio-Rad A1c allows you to see potential interfering substances, including hemoglobin variants, with your HbA_{1c} results.

Bio-Rad has fully-automated solutions that provide accurate HbA_{1c} results, even in the presence of HbS, C, D, and E variants, as well as detection of other common hemoglobin variants.

The **D-100™ Hemoglobin Testing System** lets you see the whole picture, ensuring accuracy in patient outcomes.



Bio-Rad A1c • See the Difference

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BIO-RAD

DIABETIC & HYPERTENSION PROFILE SUMMARY

TEST	DIABETIC PROFILE										HYPERTENSION PROFILE			
	DPA1	DPA3	DPA4	DPA5	DPA6	DPA7	DPA8	DPA9	DPA10	HY01	HY02	HY03	HY04	
Full Blood Count				♦						♦			♦	
ESR				♦										
Glucose	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	
HbA1c	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	
AST/SGOT					♦									
ALT/SGPT					♦									
Sodium		♦		♦				♦	♦	♦	♦	♦	♦	
Potassium		♦		♦				♦	♦	♦	♦	♦	♦	
Chloride		♦		♦				♦	♦	♦	♦	♦	♦	
Urea		♦		♦					♦	♦	♦	♦	♦	
Creatinine (serum)		♦		♦				♦	♦	♦	♦	♦	♦	
eGFR									♦					
Creatinine (urine)														
Uric Acid				♦				♦	♦	♦	♦	♦	♦	
Cholesterol, Total				♦	♦			♦	♦	♦	♦	♦	♦	
Cholesterol, HDL				♦	♦			♦	♦	♦	♦	♦	♦	
Cholesterol, LDL				♦	♦			♦	♦	♦	♦	♦	♦	
Cholesterol/HDL Ratio				♦	♦			♦	♦	♦	♦	♦	♦	
Triglycerides				♦	♦			♦	♦	♦	♦	♦	♦	
Creatine Kinase (CK)														
Urine FEME			♦						♦					
Urine C/S (if FEME is abnormal)														
Urine Microalbumin/Creatinine Ratio		♦		♦									♦	
24hr Creatinine Clearance Test														
24hr Urinary Total Protein							♦	♦						

DIABETIC PROFILE

DPA1 DIABETIC PROFILE DPA1

2ml Fluoride
3ml EDTA

1. Glucose
2. HbA1c

DPA3 DIABETIC PROFILE DPA3

6ml Plain (Fasting)
3ml EDTA

2ml Fluoride
20ml Urine

- | | |
|--|--|
| <ol style="list-style-type: none">1. Glucose2. Urea3. Creatinine4. Sodium | <ol style="list-style-type: none">5. Potassium6. Chloride7. HbA1c8. Urine Microalbumin/Creatinine Ratio |
|--|--|

DPA4 DIABETIC PROFILE DPA4

2ml Fluoride
3ml EDTA

50ml Mid-stream Urine

- | | |
|---|---|
| <ol style="list-style-type: none">1. Glucose2. HbA1c | <ol style="list-style-type: none">3. Urine FEME |
|---|---|

DPA5 DIABETIC PROFILE DPA5

8ml GEL (Fasting)
3ml EDTA x 2

2ml Fluoride
50ml Mid-stream Urine

- | | |
|---|---|
| <ol style="list-style-type: none">1. Glucose2. HbA1c3. Full Blood Count4. ESR5. Sodium6. Potassium7. Chloride8. Urea9. Creatinine | <ol style="list-style-type: none">10. Uric Acid11. Cholesterol, Total12. Cholesterol, HDL13. Cholesterol, LDL14. Cholesterol/HDL Ratio15. Triglycerides16. Urine FEME17. Urine Microalbumin/Creatinine Ratio |
|---|---|

DIABETIC PROFILE

DPA6 DIABETIC PROFILE DPA6

6ml Plain (Fasting)
3ml EDTA

2ml Fluoride

1. Glucose
2. HbA1c
3. AST/SGOT
4. ALT/SGPT
5. Cholesterol, Total

6. Cholesterol, HDL
7. Cholesterol, LDL
8. Cholesterol/HDL Ratio
9. Triglycerides

DPA7 DIABETIC PROFILE DPA7

2ml Fluoride
3ml EDTA

20ml Urine

1. Glucose (fasting)
2. HbA1c

3. Urine Microalbumin/Creatinine Ratio

DPA8 DIABETIC PROFILE DPA8

6ml Plain (Fasting)
3ml EDTA
20ml Urine

2ml Fluoride
24hr Urine Collection (State Patient's Weight & Height)

1. Glucose
2. HbA1c
3. Creatinine

4. Creatinine (urine)
5. 24hr Creatinine Clearance Test
6. 24hr Urinary Total Protein

DPA9 DIABETIC PROFILE DPA9

6ml Plain (Fasting)
3ml EDTA

2ml Fluoride
20ml Urine

1. Glucose
2. HbA1c
3. Sodium
4. Potassium
5. Chloride
6. Creatinine
7. Cholesterol, Total

8. Cholesterol, HDL
9. Cholesterol, LDL
10. Cholesterol/HDL Ratio
11. Triglycerides
12. Uric Acid
13. Urine FEME

DIABETIC PROFILE

DPA10 DIABETIC PROFILE DPA10

6ml GEL (Fasting)
3ml EDTA

2ml Fluoride
50ml Mid-stream Urine

- | | |
|---------------|---|
| 1. Glucose | 11. Cholesterol, Total |
| 2. HbA1c | 12. Cholesterol, HDL |
| 3. Sodium | 13. Cholesterol, LDL |
| 4. Potassium | 14. Cholesterol/HDL Ratio |
| 5. Chloride | 15. Triglycerides |
| 6. Urea | 16. Creatine Kinase (CK) |
| 7. Creatinine | 17. Uric Acid |
| 8. eGFR | 18. Urine FEME |
| 9. AST/SGOT | 19. Urine Microalbumin/Creatinine Ratio |
| 10. ALT/SGPT | |

HYPERTENSION PROFILE

HY01 HYPERTENSION PROFILE HY01

6ml Plain (Fasting)
3ml EDTA

2ml Fluoride
20ml Mid-stream Urine

- | | |
|---------------------|---------------------------|
| 1. Full Blood Count | 8. Uric Acid |
| 2. Sodium | 9. Cholesterol, Total |
| 3. Potassium | 10. Cholesterol, HDL |
| 4. Chloride | 11. Cholesterol, LDL |
| 5. Glucose | 12. Cholesterol/HDL Ratio |
| 6. Urea | 13. Triglycerides |
| 7. Creatinine | 14. Urine FEME |

HY02 HYPERTENSION PROFILE HY02

6ml Plain (Fasting)
2ml Fluoride

20ml Mid-stream Urine

- | | |
|---------------|---------------------------|
| 1. Sodium | 8. Cholesterol, Total |
| 2. Potassium | 9. Cholesterol, HDL |
| 3. Chloride | 10. Cholesterol, LDL |
| 4. Glucose | 11. Cholesterol/HDL Ratio |
| 5. Urea | 12. Triglycerides |
| 6. Creatinine | 13. Urine FEME |
| 7. Uric Acid | |

HY03 HYPERTENSION PROFILE HY03

6ml Plain (Fasting)
3ml EDTA

2ml Fluoride
20ml Mid-stream Urine

- | | |
|---------------|---------------------------|
| 1. Glucose | 7. Cholesterol, Total |
| 2. HbA1c | 8. Cholesterol, HDL |
| 3. Sodium | 9. Cholesterol, LDL |
| 4. Potassium | 10. Cholesterol/HDL Ratio |
| 5. Chloride | 11. Triglycerides |
| 6. Creatinine | 12. Urine FEME |

HY04 HYPERTENSION PROFILE HY04

6ml Plain (Fasting)
3ml EDTA

2ml Fluoride
20ml Mid-stream Urine

- | | |
|---------------------|---|
| 1. Full Blood Count | 9. Cholesterol, Total |
| 2. Sodium | 10. Cholesterol, HDL |
| 3. Potassium | 11. Cholesterol, LDL |
| 4. Chloride | 12. Cholesterol/HDL Ratio |
| 5. Glucose | 13. Triglycerides |
| 6. Urea | 14. Urine FEME |
| 7. Creatinine | 15. Urine Microalbumin/Creatinine Ratio |
| 8. Uric Acid | |

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DRUG SCREEN

DRUG SCREEN

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DRUGS OF ABUSE SCREEN PROFILE SUMMARY

TEST	DUX01	DUX02	DUX03	MAP
Urine Phencyclidine	♦	♦	♦	
Urine Cocaine	♦	♦	♦	
Urine Amphetamines	♦	♦	♦	
Urine Cannabinol	♦	♦	♦	
Urine Opiates	♦	♦	♦	
Blood Alcohol	♦			
Urine Barbiturates			♦	
Urine Benzodiazepines			♦	
Urine Methamphetamine				♦

DRUGS OF ABUSE SCREEN PROFILE

DUX01 DRUG SCREEN DUX01

50ml Fresh Urine
6ml Plain

- | | |
|------------------|------------------|
| 1. Phencyclidine | 4. Cannabinol |
| 2. Cocaine | 5. Opiates |
| 3. Amphetamines | 6. Blood Alcohol |

DUX02 DRUG SCREEN DUX02 (URINE)

50ml Fresh Urine

- | | |
|------------------|---------------|
| 1. Phencyclidine | 4. Cannabinol |
| 2. Cocaine | 5. Opiates |
| 3. Amphetamines | |

DUX03 DRUG SCREEN DUX03 (URINE)

50ml Fresh Urine

- | | |
|------------------|--------------------|
| 1. Phencyclidine | 5. Opiates |
| 2. Cocaine | 6. Barbiturates |
| 3. Amphetamines | 7. Benzodiazepines |
| 4. Cannabinol | |

MAP METHAMPHETAMINE SCREEN

50ml Fresh Urine

1. Methamphetamine

**DENGUE/FEBRILE/
HAEMATOLOGY/
COAGULATION/
PRE-OP**

DENGUE/FEBRILE &
HAEMATOLOGY

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DENGUE FEVER & FEBRILE SCREEN PROFILE SUMMARY

TEST	DENGUE				FEBRILE					
	DFS1	DFS2	DFS3	DFS4	FP01	FP02	FP03	FEB A	FEB B	FEB C
Full Blood Count	◆	◆		◆	◆	◆	◆	◆	◆	
ESR		◆			◆	◆	◆	◆	◆	
Malaria Parasite					◆					
Dengue NS1 Antigen			◆	◆						
Widal Test						◆	◆	◆	◆	◆
Weil Felix Test						◆	◆	◆	◆	◆
Monospot Test						◆	◆		◆	◆
Brucella Agglutination Test						◆			◆	◆
ALT/SGPT						◆				
Urine FEME					◆	◆		◆	◆	
Dengue IgG & IgM Antibodies	◆	◆	◆	◆		◆				

DENGUE FEVER PROFILE

DFS1 DENGUE FEVER PROFILE DFS1

6ml Plain
3ml EDTA

1. Full Blood Count
2. Dengue IgG & IgM Antibodies

DFS2 DENGUE FEVER PROFILE DFS2

6ml Plain
3ml EDTA

1. Full Blood Count
2. ESR
3. Dengue IgG & IgM Antibodies

DFS3 DENGUE FEVER DUO SCREEN DFS3

6ml Plain

1. Dengue IgG & IgM Antibodies
2. Dengue NS 1 Antigen

DFS4 DENGUE FEVER PROFILE DFS4

6ml Plain
3ml EDTA

1. Full Blood Count
2. Dengue IgG & IgM Antibodies
3. Dengue NS 1 Antigen

FEBRILE PROFILE

FP01 FEBRILE PROFILE FP01

3ml EDTA
20ml Mid-stream Urine

1. Full Blood Count
2. ESR
3. Malaria Parasite
4. Urine FEME

FP02 FEBRILE PROFILE FP02

6ml Plain
3ml EDTA

20ml Mid-stream Urine

1. Full Blood Count
2. ESR
3. Malaria Parasite
4. Monospot Test
5. Brucella Agglutination Test
6. Widal Test
7. Weil Felix Test
8. Dengue Antibody IgG & IGM
9. ALT/SGPT
10. Urine FEME

FP03 FEBRILE PROFILE FP03

6ml Plain
3ml EDTA

20ml Mid-stream Urine

1. Full Blood Count
2. ESR
3. Malaria Parasite
4. Widal & Weil Felix
5. Monospot Test
6. Urine FEME

FEBA FEBRILE PROFILE FEBA

6ml Plain
3ml EDTA

20ml Mid-stream Urine

1. Full Blood Count
2. ESR
3. Malaria Parasite
4. Widal Test
5. Weil Felix Test
6. Urine FEME

FEBB FEBRILE PROFILE FEBB

6ml Plain
3ml EDTA

20ml Mid-stream Urine

1. Full Blood Count
2. ESR
3. Malaria Parasite
4. Monospot Test
5. Widal Test
6. Weil Felix Test
7. Brucellosis Agglutination Test
8. Urine FEME

FEBC FEBRILE PROFILE FEBC

6ml Plain

1. Widal Test
2. Weil Felix Test
3. Monospot Test
4. Brucellosis Agglutination Test

HAEMATOLOGY, COAGULATION & PRE-OP PROFILE SUMMARY

TEST	FC01	FC02	CG01	CG02	P01	P02
Full Blood Count with PBF	◆	◆	◆		◆	◆
ESR	◆				◆	
ABO Blood Group					◆	◆
Prothrombin Time (PT/INR)			◆	◆	◆	◆
APTT (PTT)			◆		◆	◆
Sodium					◆	◆
Potassium					◆	◆
Chloride					◆	◆
Urea					◆	◆
Creatinine						◆
Urine FEME					◆	◆

HAEMATOLOGY PROFILE

FC01 FULL BLOOD COUNT FC01

3ml EDTA

- | | |
|---------------------------|--------------------------|
| 1. Haemoglobin | 6. Total Red Cell Count |
| 2. Total White Cell Count | 7. MCV, MCHC, MCH |
| 3. Differential Count | 8. Peripheral Blood Film |
| 4. Packed Cell Volume | 9. ESR |
| 5. Platelet Count | |

FC02 FULL BLOOD COUNT FC02

3ml EDTA

- | | |
|---------------------------|--------------------------|
| 1. Haemoglobin | 5. Platelet Count |
| 2. Total White Cell Count | 6. Total Red Cell Count |
| 3. Differential Count | 7. MCV, MCHC, MCH |
| 4. Packed Cell Volume | 8. Peripheral Blood Film |

COAGULATION PROFILE

CG01 COAGULATION PROFILE CG01

2.7ml Sodium Citrate Filled to Mark
3ml EDTA

- | | |
|---------------------|--------|
| 1. Full Blood Count | 3. PTT |
| 2. PT | |

CG02 COAGULATION PROFILE CG02

2.7ml Sodium Citrate Filled to Mark

1. PT
2. PTT

PRE-OP PROFILE

PO1 PRE-OP PROFILE PO1

6ml Plain
3ml EDTA

2.5ml Sodium Citrate Filled to Mark
20ml Mid-stream Urine

- | | |
|--------------------------|---------------------|
| 1. Prothrombin Time (PT) | 6. Potassium |
| 2. APTT (PTT) | 7. Chloride |
| 3. Full Blood Count | 8. Urea |
| 4. ESR | 9. Urine FEME |
| 5. Sodium | 10. ABO Blood Group |

PO2 PRE-OP PROFILE PO2

6ml Plain
3ml EDTA

2.5ml Sodium Citrate Filled to Mark
20ml Mid-stream Urine

- | | |
|--------------------------|---------------------|
| 1. Prothrombin Time (PT) | 6. Chloride |
| 2. APTT (PTT) | 7. Urea |
| 3. Full Blood Count | 8. Creatinine |
| 4. Sodium | 9. Urine FEME |
| 5. Potassium | 10. ABO Blood Group |

HEPATITIS & LIVER

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HEPATITIS & LIVER PROFILE SUMMARY

TEST	HEPATITIS PROFILE										LIVER PROFILE						
	HP01	HP02	HP03	HP04	HP05	HP06	HP07	HP08	CHBP	LVA	LV01	LV02	LV03	LV04	LFTA	LFTC	LFE
Hepatitis Bs Antigen (HBsAg)	◆		◆	◆	◆	◆	◆	◆						◆		◆	◆
Hepatitis Bs Antibody (HBsAb)	◆		◆	◆	◆	◆	◆	◆						◆		◆	◆
Hepatitis Be Antigen		◆				◆	◆		◆								
Hepatitis Be Antibody						◆	◆		◆								
Hepatitis A Total Antibody			◆		◆									◆			◆
Anti HCV Antibody				◆	◆												
Alpha Fetoprotein		◆				◆							◆	◆		◆	◆
HIV Ag/Ab Screen				◆													
Hepatitis Bc Antibody							◆										
Total Protein										◆		◆	◆	◆		◆	◆
Bilirubin, Total										◆		◆	◆	◆		◆	◆
Bilirubin, Direct																	
Bilirubin, Indirect																	
Albumin										◆		◆	◆	◆		◆	◆
Globulin										◆		◆	◆	◆		◆	◆
A/G Ratio										◆		◆	◆	◆		◆	◆
ALT/SGPT		◆				◆				◆		◆	◆	◆		◆	◆
AST/SGOT						◆				◆		◆	◆	◆		◆	◆
Hepatitis Bs Antigen (quantitative)																	
HBV DNA (quantitative)									◆								
Alkaline Phosphatase												◆	◆	◆		◆	◆
GGT												◆	◆	◆		◆	◆
LDH												◆	◆	◆		◆	◆

HEPATITIS PROFILE

HP01 HEPATITIS B PROFILE HP01

6ml Plain

1. Hepatitis Bs Antigen (HBsAg)
2. Hepatitis Bs Antibody (HBsAb)

HP02 HEPATITIS B PROFILE HP02

6ml Plain

1. Alpha Fetoprotein (AFP)
2. ALT/SGPT
3. Hepatitis Be Antigen (HBeAg)

HP03 HEPATITIS A & B PROFILE HP03

6ml Plain

1. Hepatitis Bs Antigen (HBsAg)
2. Hepatitis Bs Antibody (HBsAb)
3. Hepatitis A Total Antibody (HAV Total)

HP04 HEPATITIS B, C & HIV PROFILE HP04

6ml Plain

1. Hepatitis Bs Antigen (HBsAg)
2. Hepatitis Bs Antibody (HBsAb)
3. Anti-HCV Antibody
4. HIV Ag/Ab Screen

HP05 HEPATITIS A, B & C PROFILE HP05

6ml Plain

1. Hepatitis A Total Antibody (HAV Total)
2. Hepatitis Bs Antigen (HBsAg)
3. Hepatitis Bs Antibody (HBsAb)
4. Anti-HCV Antibody

HP06 HEPATITIS B PROFILE HP06

8ml GEL

1. ALT/SGPT
2. AST/SGOT
3. Alpha Fetoprotein (AFP)
4. Hepatitis Bs Antigen (HBsAg)
5. Hepatitis Bs Antibody (HBsAb)
6. Hepatitis Be Antigen (HBeAg)
7. Hepatitis Be Antibody (HBeAb)

HP07 HEPATITIS B PROFILE HP07

8ml GEL

1. Hepatitis Bs Antigen (HBsAg)
2. Hepatitis Bs Antibody (HBsAg)
3. Hepatitis Be Antigen (HBeAg)
4. Hepatitis Be Antibody (HBeAb)
5. Hepatitis Bc Antibody

HEPATITIS PROFILE

HP08 HEPATITIS B PROFILE HP08

8ml GEL

- | | |
|----------------------------------|--------------------------|
| 1. Hepatitis Bs Antigen (HBsAg) | 7. Bilirubin, Indirect |
| 2. Hepatitis Bs Antibody (HBsAg) | 8. Globulin |
| 3. Total Protein | 9. A/G Ratio |
| 4. Albumin | 10. ALT/SGPT |
| 5. Total Bilirubin | 11. AST/SGOT |
| 6. Bilirubin, Direct | 12. Alkaline Phosphatase |

CHBP CHRONIC HEPATITIS B PROFILE CHBP

8ml GEL

3ml EDTA

- | | |
|----------------------------------|--|
| 1. ALT/SGPT | 4. HBV DNA (quantitative) |
| 2. Hepatitis Be Antigen (HBeAg) | 5. Hepatitis Bs Antigen (quantitative) |
| 3. Hepatitis Be Antibody (HBeAb) | |

LIVER PROFILE

LVA LIVER PROFILE LVA

6ml Plain

- | | |
|--------------------|-------------------------|
| 1. Total Bilirubin | 6. ALT/SGPT |
| 2. Total Protein | 7. AST/SGOT |
| 3. Albumin | 8. Alkaline Phosphatase |
| 4. Globulin | 9. GGT |
| 5. A/G Ratio | |

LV01 LIVER PROFILE LV01

6ml Plain

- | | |
|--------------------|-------------------------|
| 1. Total Bilirubin | 4. Alkaline Phosphatase |
| 2. ALT/SGPT | 5. GGT |
| 3. AST/SGOT | |

LV02 LIVER PROFILE LV02

6ml Plain

- | | |
|--------------------|-------------------------|
| 1. Total Bilirubin | 6. ALT/SGPT |
| 2. Total Protein | 7. AST/SGOT |
| 3. Albumin | 8. Alkaline Phosphatase |
| 4. Globulin | 9. GGT |
| 5. A/G Ratio | 10. LDH |

LV03 LIVER PANEL LV03

6ml Plain

- | | |
|--------------------|-----------------------------|
| 1. Total Bilirubin | 7. AST/SGOT |
| 2. Total Protein | 8. Alkaline Phosphatase |
| 3. Albumin | 9. GGT |
| 4. Globulin | 10. LDH |
| 5. A/G Ratio | 11. Alpha Fetoprotein (AFP) |
| 6. ALT/SGPT | |

LV04 LIVER PANEL LV04

8ml GEL

- | | |
|--------------------|-----------------------------------|
| 1. Total Bilirubin | 8. Alkaline Phosphatase |
| 2. Total Protein | 9. GGT |
| 3. Albumin | 10. LDH |
| 4. Globulin | 11. Alpha Fetoprotein (AFP) |
| 5. A/G Ratio | 12. Hepatitis Bs Antigen (HBsAg) |
| 6. ALT/SGPT | 13. Hepatitis Bs Antibody (HBsAb) |
| 7. AST/SGOT | 14. Hepatitis A Total Antibody |

LIVER PROFILE

LFTA LIVER PANEL LFTA

6ml Plain

- | | |
|--------------------|-----------------------------|
| 1. Total Bilirubin | 6. ALT/SGPT |
| 2. Total Protein | 7. AST/SGOT |
| 3. Albumin | 8. Alkaline Phosphatase |
| 4. Globulin | 9. GGT |
| 5. A/G Ratio | 10. Alpha Fetoprotein (AFP) |

LFTC LIVER PANEL LFTC

8ml GEL

- | | |
|--------------------|-----------------------------------|
| 1. Total Bilirubin | 7. AST/SGOT |
| 2. Total Protein | 8. Alkaline Phosphatase |
| 3. Albumin | 9. GGT |
| 4. Globulin | 10. Alpha Fetoprotein (AFP) |
| 5. A/G Ratio | 11. Hepatitis Bs Antigen (HBsAg) |
| 6. ALT/SGPT | 12. Hepatitis Bs Antibody (HBsAb) |

LFTE LIVER PANEL LFTE

8ml GEL

- | | |
|--------------------|-----------------------------------|
| 1. Total Bilirubin | 8. Alkaline Phosphatase |
| 2. Total Protein | 9. GGT |
| 3. Albumin | 10. Alpha Fetoprotein (AFP) |
| 4. Globulin | 11. Hepatitis Bs Antigen (HBsAg) |
| 5. A/G Ratio | 12. Hepatitis Bs Antibody (HBsAb) |
| 6. ALT/SGPT | 13. Hepatitis A Total Antibody |
| 7. AST/SGOT | |

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HORMONES

Hormonal
Fertility
Menopausal
Menstrual
Anti-Ageing
Premarital

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Fully automated Elecsys® AMH Immunoassay

*Providing clinical confidence in reliable assessment
of ovarian reserve*

AMH is the marker of choice for assessment of ovarian reserve

- Remains relatively stable during menstrual cycle^{1,2}
- May be measured on any day of the cycle²
- Distinguishes between low, normal and high values related to ovarian reserve^{3,4}
- Identifies patients at risk of having diminished ovarian reserves⁵
- Adds prognostic information to the counselling and planning process for infertile couples seeking treatment⁵

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2. Tsepeldis, S. et al. (2007). *Hum Reprod*; 22:1837-1840
3. La Marca, A., Volpe, A. (2007). *Hum Reprod Update*; 13(3):265-73

4. Broer, S.L. et al. (2011). *Hum Reprod Update*; 17:46-54
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HORMONAL, FERTILITY, MENOPAUSAL, ANTI-AGEING & PREMARITAL PROFILE SUMMARY

TEST	HORMONAL										FERTILITY				MENOPAUSAL & MENSTRUAL			ANTI-AGEING		PREMARITAL	
	AM01	AM02	ARPA	ARPB	ARPC	HORA	HORC	HORE	HORF	HORG	FS01	FS01A	FS02	FS12	ME01	MCP1	MCP2	AAAS01	AAAS02	PM01	PM02
Testosterone	♦	♦		♦	♦				♦				♦						♦		
Estradiol (E2)	♦	♦		♦	♦			♦				♦	♦					♦			
Progesterone		♦					♦	♦					♦								
Free T4	♦	♦		♦	♦				♦				♦								
Thyroid Stimulating Hormone (TSH)		♦		♦					♦				♦								
Cortisol					♦																
Free T3		♦											♦								
Follicle Stimulating Hormone	♦	♦		♦	♦			♦	♦			♦	♦				♦				
Lutenising Hormone	♦	♦		♦	♦			♦	♦			♦	♦				♦				
Prolactin	♦	♦		♦	♦			♦	♦			♦	♦				♦				
Beta HCG												♦									
Dehydroepiandrosterone Sulfate (DHEAS)					♦													♦			
Insulin-like Growth Factor (IGF-1)																		♦			
Sex Hormone Binding Globulin (SHBG)																		♦			
Free Androgen Index (FAI)																		♦			
Full Blood Count																			♦		
ABO Blood Group																			♦		
Haemoglobin Electrophoresis																			♦		
Hepatitis Bs Antigen (HBsAg)																			♦		
Hepatitis Bs Antibody (HBsAb)																			♦		
Rubella IgG Antibody																			♦		
VD (Syphilis TP Ab)																			♦		
RRP & TPPA (if Syphilis is reactive)																			♦		
Anti-Mullerian Hormone																				♦	

HORMONAL PROFILE

AM01 AMMENORRHOEA PROFILE AM01

8ml GEL

1. Testosterone
2. Estradiol (E2)
3. Free T4
4. Follicle Stimulating Hormone (FSH)
5. Luteinising Hormone (LH)
6. Prolactin (patient to rest for 30 minutes)

AM02 AMMENORRHOEA PROFILE AM02

8ml GEL

1. Testosterone
2. Estradiol (E2)
3. Progesterone
4. Free T4
5. Free T3
6. Follicle Stimulating Hormone (FSH)
7. Luteinising Hormone (LH)
8. Prolactin (patient to rest for 30 minutes)
9. Thyroid Stimulating Hormone (TSH)

ARPA AMMENORRHOEA PROFILE ARPA

6ml Plain

1. Follicle Stimulating Hormone (FSH)
2. Luteinising Hormone (LH)
3. Prolactin (patient to rest for 30 minutes)

ARPB AMMENORRHOEA PROFILE ARPB

8ml GEL

1. Testosterone
2. Estradiol (E2)
3. Free T4
4. Follicle Stimulating Hormone (FSH)
5. Luteinising Hormone (LH)
6. Prolactin (patient to rest for 30 minutes)
7. Thyroid Stimulating Hormone (TSH)

ARPC AMMENORRHOEA PROFILE ARPC

8ml GEL

1. Testosterone
2. Estradiol (E2)
3. Progesterone
4. Free T4
5. Cortisol
6. Follicle Stimulating Hormone (FSH)
7. Luteinising Hormone (LH)
8. Prolactin (patient to rest for 30 minutes)
9. Dehydroepiandrosterone Sulfate (DHEAS)

HORA HORMONAL STUDY HORA

8ml GEL

1. Estradiol (E2)
2. Free T4
3. Follicle Stimulating Hormone (FSH)
4. Luteinising Hormone (LH)
5. Prolactin (patient to rest for 30 minutes)

HORMONAL PROFILE

HORC HORMONAL STUDY HORC

8ml GEL

1. Estradiol (E2)
2. Progesterone
3. Follicle Stimulating Hormone (FSH)
4. Luteinising Hormone (LH)

HORE HORMONAL STUDY HORE

8ml GEL

1. Estradiol (E2)
2. Progesterone
3. Follicle Stimulating Hormone (FSH)
4. Luteinising Hormone (LH)
5. Prolactin (patient to rest for 30 minutes)

HORF HORMONAL STUDY HORF

8ml GEL

1. Testosterone
2. Luteinising Hormone (LH)
3. Follicle Stimulating Hormone (FSH)
4. Prolactin (patient to rest for 30 minutes)

HORG HORMONAL STUDY HORG

8ml GEL

1. Estradiol (E2)
2. Free T4
3. Thyroid Stimulating Hormone (TSH)
4. Follicle Stimulating Hormone (FSH)
5. Luteinising Hormone (LH)
6. Prolactin (patient to rest for 30 minutes)

FERTILITY PROFILE

FS01 FERTILITY SCREEN FS01 (FEMALE)

8ml GEL

1. Progesterone
2. Estradiol (E2)
3. Follicle Stimulating Hormone (FSH)
4. Luteinising Hormone (LH)
5. Prolactin (patient to rest for 30 minutes)
6. Beta HCG

FS01A FERTILITY SCREEN FS01A (FEMALE)

8ml GEL

1. Progesterone
2. Estradiol (E2)
3. Follicle Stimulating Hormone (FSH)
4. Luteinising Hormone (LH)
5. Prolactin (patient to rest for 30 minutes)
6. Beta HCG
7. Anti-Mullerian Hormone

FS02 FERTILITY SCREEN FS02 (MALE)

8ml GEL

1. Testosterone
2. Luteinising Hormone (LH)
3. Follicle Stimulating Hormone (FSH)
4. Prolactin (patient to rest for 30 minutes)

FS12 FERTILITY SCREEN FS12

8ml GEL

1. Testosterone
2. Estradiol (E2)
3. Progesterone
4. Free T4 (FT4)
5. Free T3 (FT3)
6. Follicle Stimulating Hormone (FSH)
7. Luteinising Hormone (LH)
8. Prolactin (patient to rest for 30 minutes)
9. Thyroid Stimulating Hormone (TSH)
10. Anti-Mullerian Hormone

MENOPAUSAL PROFILE

ME01 MENOPAUSAL PROFILE ME01

6ml Plain

1. Estradiol (E2)
2. Luteinising Hormone (LH)
3. Follicle Stimulating Hormone (FSH)

MENSTRUAL PROFILE

MCP1 MENSTRUAL CYCLE PROFILE MCP1

8ml GEL

1. Progesterone
2. Estradiol (E2)
3. Follicle Stimulating Hormone (FSH)
4. Prolactin (patient to rest for 30 minutes)

MCP2 MENSTRUAL CYCLE PROFILE MCP2

8ml GEL

1. Estradiol (E2)
2. Luteinising Hormone (LH)
3. Follicle Stimulating Hormone (FSH)
4. Prolactin (patient to rest for 30 minutes)

ANTI-AGEING PROFILE

AAS01 ANTI-AGEING SCREENING AAS01 (FEMALE)

8ml GEL

1. Estradiol (E2)
2. Dehydroepiandrosterone Sulfate (DHEAS)
3. Insulin-like Growth Factor (IGF-1)

AAS02 ANTI-AGEING SCREENING AAS02 (MALE)

8ml GEL

1. Testosterone
2. Dehydroepiandrosterone Sulfate (DHEAS)
3. Insulin-like Growth Factor (IGF-1)
4. Sex Hormone Binding Globulin (SHBG)
5. Free Androgen Index (FAI)

PREMARITAL PROFILE

PM01 PREMARITAL PROFILE PM01 (FEMALE)

8ml GEL
3ml EDTA

- | | |
|---|----------------------------------|
| 1. Full Blood Count | 5. Hepatitis Bs Antigen (HBsAg) |
| 2. ABO Blood Group | 6. Hepatitis Bs Antibody (HBsAb) |
| 3. VD (Syphilis TP Ab) | 7. Rubella IgG Antibody |
| 4. RPR & TPPA (if Syphilis is reactive) | 8. Haemoglobin Electrophoresis |

PM02 PREMARITAL PROFILE PM02 (MALE)

8ml GEL
3ml EDTA

- | | |
|---|----------------------------------|
| 1. Full Blood Count | 5. Hepatitis Bs Antigen (HBsAg) |
| 2. ABO Blood Group | 6. Hepatitis Bs Antibody (HBsAb) |
| 3. VD (Syphilis TP Ab) | 7. Haemoglobin Electrophoresis |
| 4. RPR & TPPA (if Syphilis is reactive) | |

RENAL

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RENAL PROFILE SUMMARY

TEST	EL01	U/E	RF01	RF02	RF03	RF04	RF05	RF06	RF07	RF09	RF10	RF11
Haemoglobin											♦	
Glucose							♦	♦		♦	♦	
Sodium	♦	♦	♦		♦	♦	♦	♦	♦	♦	♦	♦
Potassium	♦	♦	♦		♦	♦	♦	♦	♦	♦	♦	♦
Chloride	♦	♦	♦		♦	♦	♦	♦	♦	♦	♦	♦
Urea		♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Creatinine			♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Calcium								♦		♦		
Phosphate								♦		♦		
Bicarbonate		♦	♦			♦	♦	♦	♦	♦		
Uric Acid	♦				♦			♦		♦	♦	
Albumin									♦	♦		
Cholesterol, Total											♦	
Urine FEME			♦	♦					♦		♦	♦
24hr Urine Total Protein				♦					♦		♦	
24hr Urine Creatinine Clearance				♦					♦		♦	
Urine Creatinine				♦					♦		♦	
Parathyroid Hormone (iPTH)										♦		
eGFR			♦	♦	♦	♦	♦	♦	♦	♦	♦	♦

RENAL PROFILE

EL01 ELECTROLYTES EL01

6ml Plain

- | | |
|--------------|----------------|
| 1. Sodium | 3. Chloride |
| 2. Potassium | 4. Bicarbonate |

U/E UREA & ELECTROLYTES U/E

6ml Plain

- | | |
|--------------|----------------|
| 1. Sodium | 4. Bicarbonate |
| 2. Potassium | 5. Urea |
| 3. Chloride | |

RF01 RENAL PROFILE RF01

6ml Plain

20ml Mid-stream Urine

- | | |
|----------------|---------------|
| 1. Sodium | 5. Urea |
| 2. Potassium | 6. Creatinine |
| 3. Chloride | 7. Urine FEME |
| 4. Bicarbonate | 8. eGFR |

RF02 RENAL PROFILE RF02

6ml Plain

20ml Mid-stream Urine

24hr Urine Collection

State Height & Weight of Patient

- | | |
|-----------------------------|------------------------------------|
| 1. Urea | 5. 24hr Urine Creatinine Clearance |
| 2. Creatinine | 6. Urine FEME |
| 3. Urine Creatinine | 7. eGFR |
| 4. 24hr Urine Total Protein | |

RF03 RENAL PROFILE RF03

6ml Plain

- | | |
|--------------|---------------|
| 1. Sodium | 5. Creatinine |
| 2. Potassium | 6. Uric Acid |
| 3. Chloride | 7. eGFR |
| 4. Urea | |

RF04 RENAL PROFILE RF04

6ml Plain

- | | |
|----------------|---------------|
| 1. Sodium | 5. Urea |
| 2. Potassium | 6. Creatinine |
| 3. Chloride | 7. eGFR |
| 4. Bicarbonate | |

RENAL PROFILE

RF05 RENAL PROFILE RF05

6ml Plain
3ml Fluoride

- | | |
|----------------|---------------|
| 1. Sodium | 5. Urea |
| 2. Potassium | 6. Creatinine |
| 3. Chloride | 7. Glucose |
| 4. Bicarbonate | 8. eGFR |

RF06 RENAL PROFILE RF06

6ml Plain
3ml Fluoride

- | | |
|----------------|---------------|
| 1. Sodium | 7. Glucose |
| 2. Potassium | 8. Calcium |
| 3. Chloride | 9. Phosphate |
| 4. Bicarbonate | 10. Uric Acid |
| 5. Urea | 11. eGFR |
| 6. Creatinine | |

RF07 RENAL PROFILE RF07

6ml Plain
20ml Mid-stream Urine

24hr Urine Collection
State Height & Weight of Patient

- | | |
|----------------|-------------------------------------|
| 1. Sodium | 7. Serum Creatinine |
| 2. Potassium | 8. 24hr Urine Total Protein |
| 3. Chloride | 9. Urine Creatinine |
| 4. Bicarbonate | 10. 24hr Urine Creatinine Clearance |
| 5. Albumin | 11. Urine FEME |
| 6. Urea | 12. eGFR |

RF09 RENAL PROFILE RF09

6ml Plain
3ml Fluoride

- | | |
|----------------|--------------------------------|
| 1. Sodium | 8. Calcium |
| 2. Potassium | 9. Phosphate |
| 3. Chloride | 10. Uric Acid |
| 4. Bicarbonate | 11. Albumin |
| 5. Urea | 12. Parathyroid Hormone (iPTH) |
| 6. Creatinine | 13. eGFR |
| 7. Glucose | |

RENAL PROFILE

RF10 RENAL PROFILE RF10

6ml Plain
3ml EDTA
3ml Fluoride

20ml Mid-stream Urine
24hr Urine Collection
State Height & Weight of Patient

1. Haemoglobin
2. Sodium
3. Potassium
4. Chloride
5. Glucose
6. Urea
7. Creatinine
8. Uric Acid

9. Albumin
10. Cholesterol, Total
11. Urine Creatinine
12. 24hr Urine Total Protein
13. 24hr Urine Creatinine Clearance
14. Urine FEME
15. eGFR

RF11 RENAL PROFILE RF11

6ml Plain
20ml Mid-stream Urine

1. Sodium
2. Potassium
3. Chloride
4. Urea

5. Creatinine
6. Urine FEME
7. eGFR

SEXUALLY TRANSMITTED DISEASE (STD)

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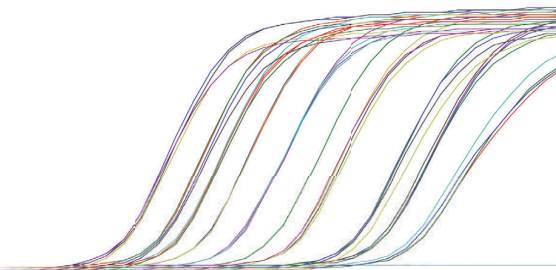


Abbott RealTime CT/NG Proven Performance and Efficiency in STD Testing

Abbott RealTime CT/NG assay provides efficient detection of *Chlamydia trachomatis* and *Neisseria gonorrhoeae* with proven clinical performance in sexually transmitted disease testing

Leading Science

- Excellent sensitivity with low inhibition rates in the detection of *C. trachomatis* – Reliability in results and efficiency in sample processing
- High specificity for *N. gonorrhoeae* – Accurate results by avoiding cross-reactivity with other *Neisseria* species and other organisms
- Unique Abbott multi-Collect Specimen Collection Kit for multiple sample types – Efficiency in clinical specimen collection and laboratory workflow
- Pierceable caps with multi-Collect Specimen Collection Kit – Improves workflow by eliminating the need to uncap every specimen



Powerful menu consolidation.

The Abbott RealTime CT/NG assay is part of the broad Abbott RealTime assay menu on the *m* System Family platform.

STD PROFILE SUMMARY

TEST	ST01	ST02	ST03	ST04	ST08	ST09	ST10	ST13	ST14	HSV
Chlamydia & Gonorrhoea PCR	✦	✦	✦	✦	✦	✦	✦	✦	✦	
Herpes Simplex Virus Type I IgG	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦
Herpes Simplex Virus Type II IgG	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦
Herpes Simplex Virus Type I & II PCR								✦	✦	
HIV Ag/Ab Screen		✦	✦			✦		✦	✦	
Urine FEME		✦			✦	✦		✦	✦	
VD (Syphilis TP Ab)		✦	✦	✦	✦	✦		✦	✦	
RPR & TPHA (if Syphilis is reactive)		✦	✦	✦	✦	✦		✦	✦	
DNA Probe Screen for Vaginitis (Affirm VPIII)									✦	

STD PROFILE

ST01 STD PROFILE ST01

6ml Plain

Dry Swab (Female – Endocervical / HVS Swab) or 20ml Mid-stream Urine (Male)

1. Chlamydia & Gonorrhoea PCR
2. Herpes Simplex Virus Type I IgG
3. Herpes Simplex Virus Type II IgG

ST02 STD PROFILE ST02

8ml GEL

20ml Mid-stream Urine

Dry Swab (Female – Endocervical / HVS Swab) or 20ml Mid-stream Urine (Male)

1. Chlamydia & Gonorrhoea PCR
2. HIV Ab/Ab Screen
3. Urine FEME
4. Herpes Simplex Virus Type I IgG
5. Herpes Simplex Virus Type II IgG
6. VD (Syphilis TP Ab)
7. RPR & TPPA (if Syphilis is reactive)

ST03 STD PROFILE ST03

8ml GEL

Dry Swab (Female – Endocervical / HVS Swab) or 20ml Mid-stream Urine (Male)

1. Chlamydia & Gonorrhoea PCR
2. HIV Ag/Ab Screen
3. Herpes Simplex Virus Type I IgG
4. Herpes Simplex Virus Type II IgG
5. VD (Syphilis TP Ab)
6. RPR & TPPA (if Syphilis is reactive)

ST04 STD PROFILE ST04

8ml GEL

Dry Swab (Female – Endocervical / HVS Swab) or 20ml Mid-stream Urine (Male)

1. Herpes Simplex Virus Type I IgG
2. Herpes Simplex Virus Type II IgG
3. VD (Syphilis TP Ab)
4. RPR & TPPA (if Syphilis is reactive)
5. Chlamydia & Gonorrhoea PCR

ST08 STD PROFILE ST08

6ml Plain

20ml Mid-stream Urine

Dry Swab (Female – Endocervical / HVS Swab) or 20ml Mid-stream Urine (Male)

1. Chlamydia & Gonorrhoea PCR
2. Herpes Simplex Virus Type I IgG
3. Herpes Simplex Virus Type II IgG
4. Urine FEME
5. VD (Syphilis TP Ab)
6. RPR & TPPA (if Syphilis is reactive)

ST09 STD PROFILE ST09

6ml Plain

20ml Mid-stream Urine

Dry Swab (Female – Endocervical / HVS Swab) or 20ml Mid-stream Urine (Male)

1. Chlamydia & Gonorrhoea PCR
2. Herpes Simplex Virus Type I IgG
3. Herpes Simplex Virus Type II IgG
4. HIV Ag/Ab Screen
5. Urine FEME
6. VD (Syphilis TP Ab)
7. RPR & TPPA (if Syphilis is reactive)

STD PROFILE

ST10 STD PROFILE ST10

6ml Plain

Dry Swab (Female – Endocervical / HVS swab) or 20ml Mid-stream Urine (Male)

1. Chlamydia & Gonorrhoea PCR
2. Herpes Simplex Virus Type I IgG
3. Herpes Simplex Virus Type II IgG

ST13 STD PROFILE ST13

8ml Plain

20ml Mid-stream Urine

Dry Swab x 2

1. Chlamydia & Gonorrhoea PCR
2. Herpes Simplex Virus Type I IgG
3. Herpes Simplex Virus Type II IgG
4. HIV Ag/Ab Screen
5. Urine FEME
6. VD (Syphilis TP Ab)
7. RPR & TPPA (if Syphilis is reactive)
8. Herpes Simplex Virus I & II PCR

ST14 STD PROFILE ST14

8ml Plain

20ml Mid-stream Urine

Dry Swab x 2

1. Chlamydia & Gonorrhoea PCR
2. Herpes Simplex Virus Type I IgG
3. Herpes Simplex Virus Type II IgG
4. HIV Ag/Ab Screen
5. DNA Probe Screen for Vaginitis (Affirm VPIII)
6. Urine FEME
7. VD (Syphilis TP Ab)
8. RPR & TPPA (if Syphilis is reactive)
9. Herpes Simplex Virus I & II PCR

HSV STD PROFILE HSV

6ml Plain

1. Herpes Simplex Virus Type I IgG
2. Herpes Simplex Virus Type II IgG

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THYROID

THYROID

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THYROID PROFILE SUMMARY

TEST	QTP1	QTP2	QTP3	QTP4	QTP5	QTP6	QTP7	QTP8
Free T4 (FT4)	◆	◆	◆	◆	◆	◆	◆	◆
Thyroid Stimulating Hormone (TSH)	◆	◆	◆	◆		◆	◆	◆
Thyroid Stimulating Hormone Receptor Antibody (TRAB)						◆		
Thyroid Stimulating Immunoglobulin (TSI)							◆	◆
Free T3 (FT3)			◆	◆	◆	◆	◆	◆
Thyroglobulin								◆
Thyroglobulin Antibody	◆			◆		◆	◆	
Thyroid Peroxidase Antibody (Anti-TPO)	◆			◆		◆	◆	◆

THYROID PROFILE

QTP1 THYROID PROFILE QTP1

8ml GEL

1. Free T4 (FT4)
2. Thyroid Stimulating Hormone (TSH)
3. Thyroid Peroxidase Antibody (Anti-TPO)
4. Thyroglobulin Antibody

QTP2 THYROID PROFILE QTP2

6ml Plain

1. Free T4 (FT4)
2. Thyroid Stimulating Hormone (TSH)

QTP3 THYROID PROFILE QTP3

6ml Plain

1. Free T4 (FT4)
2. Thyroid Stimulating Hormone (TSH)
3. Free T3 (FT3)

QTP4 THYROID PROFILE QTP4

8ml GEL

1. Free T4 (FT4)
2. Free T3 (FT3)
3. Thyroid Peroxidase Antibody (Anti-TPO)
4. Thyroglobulin Antibody
5. Thyroid Stimulating Hormone (TSH)

QTP5 THYROID PROFILE QTP5

6ml Plain

1. Free T4 (FT4)
2. Free T3 (FT3)

QTP6 THYROID PROFILE QTP6

8ml GEL

1. Free T4 (FT4)
2. Free T3 (FT3)
3. Thyroid Stimulating Hormone (TSH)
4. Thyroid Peroxidase Antibody (Anti-TPO)
5. Thyroglobulin Antibody
6. Thyroid Stimulating Hormone Receptor Antibody (TRAB)

QTP7 THYROID PROFILE QTP7

8ml GEL

1. Free T4 (FT4)
2. Free T3 (FT3)
3. Thyroid Stimulating Hormone (TSH)
4. Thyroid Peroxidase Antibody (Anti-TPO)
5. Thyroglobulin Antibody
6. Thyroid Stimulating Immunoglobulin (TSI)

QTP8 THYROID PROFILE QTP8

8ml GEL

1. Free T4 (FT4)
2. Free T3 (FT3)
3. Thyroid Stimulating Hormone (TSH)
4. Thyroid Peroxidase Antibody (Anti-TPO)
5. Thyroglobulin
6. Thyroid Stimulating Immunoglobulin (TSI)

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WORK PERMIT PROFILE SUMMARY

TEST	HIV/ HIW	WP1	WP2	WP3	WP4	WP6	WP7	WP14	WP23	WP28	WP29	WP30	WP33	WP34	WP35
ABO Blood Group									✦						
Hepatitis Bs Antigen (HBsAg)					✦			✦					✦		
Malaria Parasite						✦	✦	✦				✦		✦	✦
VD (Syphilis TP Ab)		✦	✦	✦	✦	✦	✦	✦		✦	✦	✦			✦
RPR & TPPA (if Syphilis is reactive)		✦	✦	✦	✦	✦	✦	✦		✦	✦	✦			✦
Beta-HCG Total (Serum Pregnancy Test)										✦	✦	✦			
HIV Ag/Ab Screen	✦		✦	✦	✦	✦	✦	✦	✦	✦		✦	✦	✦	
Urine Pregnancy		✦													

WORK PERMIT PROFILE

HIV/HIW	HIV SCREEN		
	6ml Plain		
	1. HIV Ag/Ab Screen		
WP1	WORK PERMIT 1		
	6ml Plain		
	20ml Mid-stream Urine		
	1. VD (Syphilis TP Ab)		
	2. Urine Pregnancy		
WP2	WORK PERMIT 2		
	6ml Plain		
	1. VD (Syphilis TP Ab)		
	2. HIV Ag/Ab Screen		
WP3	WORK PERMIT 3		
	6ml Plain		
	20ml Mid-stream Urine		
	1. VD (Syphilis TP Ab)	3. Urine Pregnancy	
	2. HIV Ag/Ab Screen		
WP4	WORK PERMIT 4		
	6ml Plain		
	1. VD (Syphilis TP Ab)	3. Hepatitis Bs Antigen (HBsAg)	
	2. HIV Ag/Ab Screen		
WP6	WORK PERMIT 6		
	6ml Plain		
	3ml EDTA		
	1. VD (Syphilis TP Ab)	3. Malaria Parasite	
	2. HIV Ag/Ab Screen		
WP7	WORK PERMIT 7		
	6ml Plain	20ml Mid-stream Urine	
	3ml EDTA		
	1. VD (Syphilis TP Ab)	3. Malaria Parasite	
	2. HIV Ag/Ab Screen	4. Urine Pregnancy	
WP14	WORK PERMIT 14		
	6ml Plain		
	3ml EDTA		
	1. VD (Syphilis TP Ab)	3. Malaria Parasite	
	2. HIV Ag/Ab Screen	4. Hepatitis Bs Antigen (HBsAg)	

WORK PERMIT PROFILE

WP23 WORK PERMIT 23

6ml Plain
3ml EDTA

1. HIV Ag/Ab Screen
2. ABO Blood Group

WP28 WORK PERMIT 28

6ml Plain

1. VD (Syphilis TP Ab)
2. HIV Ag/Ab Screen
3. Beta-HCG Total (Serum Pregnancy Test)

WP29 WORK PERMIT 29

6ml Plain

1. VD (Syphilis TP Ab)
2. Beta-HCG Total (Serum Pregnancy Test)

WP30 WORK PERMIT 30

6ml Plain
3ml EDTA

1. VD (Syphilis TP Ab)
2. HIV Ag/Ab Screen
3. Malaria Parasite
4. Beta-HCG Total (Serum Pregnancy Test)

WP33 WORK PERMIT 33

6ml Plain

1. HIV Ag/Ab Screen
2. Hepatitis Bs Antigen (HBsAg)

WP34 WORK PERMIT 34

6ml Plain
3ml EDTA

1. HIV Ag/Ab Screen
2. Malaria Parasite

WP35 WORK PERMIT 35

6ml Plain
3ml EDTA

1. VD (Syphilis TP Ab)
2. Malaria Parasite

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SINGLE TEST
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NexION series ICP-MS: Triple quad power meets single quad versatility.

Trace metals in food, nanomaterials in water, impurities in everything from pills to electronic components: These are the sweet spot for the NexION® series ICP-MS. Its sample introduction technology lets you run samples with up to 35% total dissolved solids. Plus, its interference removal capabilities give you the best detection limits for your application. And it delivers superior analysis times and single particle/cell detection capability – at least 10x faster than competitive systems. So the NexION series ICP-MS is up to the most important challenge of all: *Yours*.

PerkinElmer ICPMS provide unsurpassed Stability and Accuracy in Biomonitoring of heavy metals in Urine, Blood and Serum samples.

Advantage of NexION ICPMS includes

- Features that aid in Long Term Stability
 - Allowing a visual inspection of cones while running
 - Salt can build up on cones can cause long term instability
 - Monitor cone condition through plasma view window
 - Focused Ion beam with Hyperskimmer
 - Use of QID rather than a traditional lens
 - A traditional lens can be problematic in urine/blood analysis
 - Deposits on lens cause calibration changes
 - Analyte deposits on lens may elevate background
- Clinically significant levels are extremely low for some analytes
 - Reaction cell lowers detection limits
 - Effectively eliminate polyatomic interference
 - Allows use of most abundant mass
 - Improves signal to noise ratio
 - Greater use of a hyperskimmer cone
 - More ions reach the detector
 - No sensitivity loss by poor lens condition
 - Lower BG levels due to absence of traditional lens
 - Analyte build up on lens elevates background
 - Instrument design provides better detection limits
 - Increased counts for low masses
 - Higher counts better precision



NexION series ICP Mass Spectrometer



NexION® 350

Analytical Values Whole Blood

	L1	Range	L2	Range	L3	Range
Al	9.2	2.8 - 15.6	70.9	65.9 - 75.9	105	84 - 126
Sb	1.91	1.15 - 2.67	30.5	18.3 - 42.7	22.4	17.9 - 26.9
As	2.4	1.4 - 3.4	14.3	8.5 - 20.1	30.4	23.1 - 37.7
Be	0.007	0.004 - 0.010	5.68	5.22 - 6.14	12.5	10.0 - 15.0
Bi	0.005	0.003 - 0.007	5.18	4.84 - 5.52	57.6	46.0 - 69.2
Cd	0.36	0.32 - 0.40	5.8	5.4 - 6.2	12.1	10.8 - 13.4
Cr	0.86	0.48 - 1.24	11.8	7.0 - 16.6	23.2	18.5 - 27.9
Co	0.16	0.10 - 0.22	5.8	3.5 - 8.1	11.4	10.2 - 12.6
Cu	680	410 - 950	1330	790 - 1870	2407	2220 - 2720
Pb	10.2	6.0 - 14.4	310	186 - 434	447	401 - 493
Mn	20.7	12.3 - 29.1	29.9	17.9 - 41.9	47.3	37.8 - 56.8
Hg	1.5	0.90 - 2.10	16	9.6 - 22.4	37.1	29.6 - 44.6
Mo	0.94	0.61 - 1.27	6.42	3.84 - 9.00	7.5	6.0 - 9.0
Ni	1.18	0.70 - 1.66	17.9	10.7 - 25.1	12.6	10.1 - 15.1
Se	59	35 - 83	112	66 - 158	272	217 - 327
Tl	0.008	0.004 - 0.012	10.3	9.7 - 10.9	34.1	27.2 - 41.0
Sn	0.3	0.15 - 0.45	5.7	3.4 - 8.0	9.8	7.8 - 11.8
V	1.3	1.1 - 1.5	6	5.3 - 6.7	5.7	4.6 - 6.8
Zn	4400	4000 - 4800	6500	5800 - 7200	9110	7280 - 10940

Analyte (m/z)	Polyatomic Interferences	Reaction Gas
V ⁵¹	C ¹³ O ¹⁶	Ammonia
Cr ⁵²	Ar ⁴⁰ C ¹²	Ammonia
Mn ⁵⁵	K ³⁹ O ¹⁶ , Na ²³ C ³²	Ammonia
Co ⁵⁹	Ar ⁴⁰ O ¹⁸ H, Na ²³ Ar ²⁶ , Ca ⁴³ O ¹⁶	Ammonia
Cu ⁶⁵	Ca ⁴⁶ O ¹⁸ H, P ³¹ O ¹⁶ O ¹⁸ , Mg ²⁵ Ar ⁴⁰	Ammonia

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SINGLE TESTS

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Biochemistry (Urine)
Biochemistry (Urine Toxicology)
Haematology
Hormones
Immunology & Serology
Industrial Toxicology
Microbiology
Molecular Biology
Histology & Cytology

BIOCHEMISTRY (BLOOD)

CODE	TEST	SPECIMEN
ALB	Albumin	6ml Plain
BLB	Alcohol (Ethanol)	6ml Plain
ALP	Alkaline Phosphatase	6ml Plain
ALH	Alkaline Phosphatase Isoenzyme (Fractionation) – Heat Stable	6ml Plain
ALT	ALT, Alanine Aminotransferase (SGPT)	6ml Plain
AMY	Amylase	6ml Plain
AA1	Apolipoprotein A1	6ml Plain
APB	Apolipoprotein B	6ml Plain
AST	AST, Aspartate Aminotransferase (SGOT)	6ml Plain
BIC	Bicarbonate	6ml Plain
CBI	Direct Bilirubin, Conjugated	6ml Plain
UBI	Indirect Bilirubin, Unconjugated	5ml Plain
BIL	Bilirubin, Total	6ml Plain
CA	Calcium	6ml Plain
CHL	Chloride	6ml Plain
HDL	Cholesterol, HDL	6ml Plain
LDL	Cholesterol, LDL (Calculated)	6ml Plain
DDL	Cholesterol, LDL (Direct)	6ml Plain
CHO	Cholesterol, Total	6ml Plain
CK	Creatine Kinase (CK)	6ml Plain
CRP	C-Reactive Protein (wr-CRP)	6ml Plain
CKM	CK-MB	6ml Plain
CRE	Creatinine	6ml Plain
CRL	Creatinine Clearance Test (Serum & Urine)	6ml Plain & 24hr Urine
EGR	eGFR	6ml Plain
GGT	Gamma Glutamyltransferase (GGT)	6ml Plain
GLO	Globulin	6ml Plain
GLU	Glucose (Fasting)	2ml Fluoride
2HP	Glucose (2hr Post-prandial)	2ml Fluoride
GTT	Glucose Tolerance Test	2ml Fluoride x 2 (Mark '0' & '2' hr)
HBA	Glycated Haemoglobin (HbA1c)	3ml EDTA
FE	Iron	6ml Plain
TIB	Total Iron Binding Capacity (TIBC), including Transferrin	6ml Plain
LDH	LDH, Lactate Dehydrogenase	6ml Plain
LPL	Lipoprotein(a)	6ml Plain
MGM	Magnesium, Serum	6ml Plain
PHO	Phosphate	6ml Plain

BIOCHEMISTRY (BLOOD)

CODE	TEST	SPECIMEN
K	Potassium	6ml Plain
TP	Protein, Total	6ml Plain
PCT	Procalcitonin	6ml Plain
AST	SGOT, Aspartate Aminotransferase (AST)	6ml Plain
ALT	SGPT, Alanine Aminotransferase (ALT)	6ml Plain
NA	Sodium	6ml Plain
TFN	Transferrin	6ml Plain
TRI	Triglycerides	6ml Plain
URE	Urea	6ml Plain
UA	Uric Acid	6ml Plain
VIT	Total Vitamin D (Immunoassay)	6ml Plain
VHP	Total Vitamin D (with D2 & D3 Readings) – HPLC	6ml Plain

BIOCHEMISTRY (URINE)

CODE	TEST	SPECIMEN
UAL	Alcohol (Urine)	50ml Urine
UCA	Calcium	24hr Urine
UCH	Chloride	24hr Urine Preferred
UCR	Creatinine	24hr Urine
CRL	Creatinine Clearance Test	6ml Plain Blood & 24hr Urine
UMA	Magnesium	24hr Urine
UMI	Microalbumin/Creatinine Ratio (ACR)	Random Urine (Preferably First Morning Void)
UML	Microalbumin Excretion (AER)	24hr Urine – Start & Finish Time Must be Noted
PHC	Urine Phase Contrast Microscopy	20ml Mid-stream Urine
UPH	Phosphate	24hr Urine
UK	Potassium	24hr Urine
UTP	Protein Total	24hr Urine
UPC	Protein/Creatinine Ratio	Random Urine (Preferably First Morning Void)
UNA	Sodium	24hr Urine
UUR	Urea	24hr Urine
UUA	Uric Acid	24hr Urine

BIOCHEMISTRY (URINE TOXICOLOGY)

CODE	TEST	SPECIMEN
BAR	Urine Barbiturates	20ml Urine
BEN	Urine Benzodiazepines	20ml Urine
CUR	Urine Cotinine	20ml Urine
COE	Urine Cocaine	20ml Urine
MAP	Urine Methamphetamine	30ml Urine

HAEMATOLOGY

CODE	TEST	SPECIMEN
PTT	APTT	2.7ml Sodium Citrate
ABO *	Blood Group	3ml EDTA
COL	Cold Agglutinins	6ml Plain
DCT	Coomb's Test (Direct)	3ml EDTA
ESR	Erythrocyte Sedimentation Rate	3ml EDTA
FIB	Fibrinogen	2.7ml Sodium Citrate
SG6	G6PD Screening	3ml EDTA
HB	Haemoglobin	3ml EDTA
HBH	Haemoglobin (Hb) – H Inclusion Bodies	3ml EDTA
HEL **	Haemoglobin Electrophoresis	3ml EDTA
PT	INR (International Normalised Ratio)	2.7ml Sodium Citrate
LUP	Lupus Anticoagulant	2.7ml Sodium Citrate
MP	Malaria Parasite	3ml EDTA
MIF	Microfilaria Parasites	3ml EDTA
PLT	Platelet Count	3ml EDTA
RET	Reticulocyte Count	3ml EDTA

* If ABO confirmation (send-out) is required, prevailing rate will be charged.

** If Haemoglobin Electrophoresis confirmation (send-out) is required, prevailing rate will be charged.

HORMONES

CODE	TEST	SPECIMEN
AMH	Anti Mullerian Hormone	6ml Plain
BHG	Beta HCG	6ml Plain
BHM	Beta HCG Subunit (Cancer Screening)	6ml Plain
COR	Cortisol (Blood)	6ml Plain
DHE	Dehydroepiandrosterone Sulfate	6ml Plain
E2	Estradiol (E2)	6ml Plain
FSH	Follicle Stimulating Hormone (FSH)	6ml Plain
FAI	Free Androgen Index	6ml Plain
FT3	Free T3 (FT3)	6ml Plain
FT4	Free T4 (FT4)	6ml Plain
HE4	Human Epididymis Protein 4	6ml Plain
IGF	Insulin-like Growth Factor 1 (IGF-1)	6ml Plain
INS	Insulin (Fasting)	6ml Plain
LH	Luteinizing Hormone (LH)	6ml Plain
PTH	Parathyroid Hormone (iPTH)	6ml Plain
PRG	Progesterone	6ml Plain
PRL	Prolactin	6ml Plain
SHB	Sex Hormone Binding Globulin (SHBG)	6ml Plain
TES	Testosterone, Total	6ml Plain
TSH	Thyroid Stimulating Hormone (TSH)	6ml Plain
TSI	Thyroid Stimulating Immunoglobulin (TSI)	6ml Plain
TYG	Thyroglobulin	6ml Plain
TRA	Thyroid Stimulating Hormone Receptor Antibody (TRAB)	6ml Plain
THA	Thyroglobulin Antibody	6ml Plain
TPO	Thyroid Peroxidase Antibody (Anti-TPO)	6ml Plain

IMMUNOLOGY & SEROLOGY

CODE	TEST	SPECIMEN
AFP	Alpha Fetoprotein (AFP)	6ml Plain
ANF	Anti Nuclear Factor (ANF) (Immunofluorescence with Titer)	6ml Plain
ASO	Anti Streptolysin O Titre (ASOT)	6ml Plain
DNA	Anti-ds DNA	6ml Plain
BRU	Brucella Agglutination Test	6ml Plain
C25	CA125	6ml Plain
153	CA15.3	6ml Plain
C19	CA19.9	6ml Plain
CEA	Carcinoembryonic Antigen (CEA)	6ml Plain
C3	Complement C3	6ml Plain
C4	Complement C4	6ml Plain
MVG	Cytomegalovirus IgG Antibody (CMV IgG)	6ml Plain
MVM	Cytomegalovirus IgM Antibody (CMV IgM)	6ml Plain
DGE	Dengue IgG & IgM Ab	6ml Plain
NS1	Dengue Antigen (NS1 Antigen)	6ml Plain
EBV	Epstein Barr Virus/EA-IgA	6ml Plain
FER	Ferritin	6ml Plain
FOL	Folic Acid Serum	6ml Plain
HPY	Helicobacter pylori/IgG	6ml Plain
HAV	Hepatitis A Total Antibody (HAV Total)	6ml Plain
HAM	Hepatitis A IgM Antibody (HAV IgM)	6ml Plain
HCG	Hepatitis B Core Total Antibody	6ml Plain
HCM	Hepatitis B Core IgM Antibody	6ml Plain
HAB	Hepatitis Bs Antibody (HBsAb)	6ml Plain
HAG	Hepatitis Bs Antigen (HBsAg)	6ml Plain
HSQ	Hepatitis Bs Antigen (Quantitative)	6ml Plain
HEA	Hepatitis Be Antibody (HBeAb)	6ml Plain
HEG	Hepatitis Be Antigen (HBeAg)	6ml Plain
HCV	Hepatitis C Antibody (HCV)	6ml Plain
HS1	Herpes Simplex Type I IgG	6ml Plain
HS2	Herpes Simplex Type II IgG	6ml Plain
VAR	Herpes Zoster – See Varicella	6ml Plain
HIV	HIV Ag/Ab (Screen)	6ml Plain
HOC	Homocysteine	3ml EDTA on Ice (in Single Tube)
HTL	HTLV I & II Antibodies	6ml Plain
IM	Monospot (Infectious Mononucleosis)	6ml Plain

IMMUNOLOGY & SEROLOGY

CODE	TEST	SPECIMEN
MEG	Measles IgG Antibody	6ml Plain
MUG	Mumps IgG Antibody	6ml Plain
MPA	Mycoplasma Antibody	6ml Plain
MYM	Mycoplasma IgM Antibody	6ml Plain
BNP	NT-proBNP	6ml Plain
PSA	Prostatic Specific Antigen (PSA)	6ml Plain
FPS	Free PSA%	6ml Plain
RA	Rheumatoid Factor (RF)	6ml Plain
VD	VD (Syphilis TP Ab)	6ml Plain
RUG	Rubella IgG Antibody	6ml Plain
TQP *	QuantiFERON®-TB Gold Plus	TB Gold In-tube x 4
TOG	Toxoplasma IgG Antibody	6ml Plain
TPH	TPPA	6ml Plain
UBT *	Urea Breath Test	UBT Kit
VAR	Varicella-Zoster IgG Antibody	6ml Plain
B12	Vitamin B12	6ml Plain
WWF	Weil-Felix & Widal (WWF)	6ml Plain
WFT	Weil-Felix Test (Screen) (Rickettsia)	6ml Plain
WT	Widal Test (Salmonella Agglutinins)	6ml Plain
3gIGE	Total IGE	6ml Plain

* Instructional leaflet in collection kit must be strictly adhered to for collection of samples. Kindly note that improper collection/handling of kit resulting in sample rejection will be subjected to \$50.00 charge for the kit used.

INDUSTRIAL TOXICOLOGY

CODE	TEST	SPECIMEN
BLOOD		
AL	Aluminium	6ml Plain (Royal Blue Cap)
ASB	Arsenic	6ml K2-EDTA (Royal Blue Cap)
CD	Cadmium	6ml K2-EDTA (Royal Blue Cap)
CU	Copper	6ml Plain (Royal Blue Cap)
PB	Lead	6ml K2-EDTA (Royal Blue Cap)
MN	Manganese	6ml K2-EDTA (Royal Blue Cap)
HG	Mercury	6ml K2-EDTA (Royal Blue Cap)
SE	Selenium	6ml Plain (Royal Blue Cap)
ZN	Zinc	6ml Plain (Royal Blue Cap)
URINE		
ASU	Urine Arsenic	30ml Random Urine in Sterile Container
CDU	Urine Cadmium	30ml Random Urine in Sterile Container
CUU	Urine Copper	24hr Urine in 24hr Urine Container
PBR	Urine Lead	30ml Random Urine in Sterile Container
MNU	Urine Manganese	30ml Random Urine in Sterile Container
HGU	Urine Mercury	30ml Random Urine in Sterile Container
NI	Urine Nickel (Random)	30ml Random Urine in Sterile Container
NIC	Urine Nickel (24hr)	24hr Urine in 24hr Urine Container
TTM	tt-muconic (Biomarker for Benzene Exposure)	30ml Random Urine in Sterile Container

MICROBIOLOGY

CODE	TEST	SPECIMEN
SMEARS		
AFB	Direct Smear, Acid Fast Bacilli	Sample in Sterile Container
AMO	Direct Smear, Amoeba	Stool
GS	Direct Smear, Bacteria (Gram Stain)	Transport Swab
DS	Direct Smear for GC, Monilia & Trichomonas Wet Mount & Gram Stain)	Transport Swab
FUN	Direct Smear, Fungus	Skin Scraping/ Clippings in Sterile Container. Transport Swab for Other Sites.
MCE	Microscopy, Clue Cells	Transport Swab/ Discharge
HVF	HVS FEME	Transport Swab
CULTURES		
ABC	Blood Culture, Aerobic	5-10ml Blood
NBC	Blood Culture, Anaerobic	5-10ml Blood
CS	Culture & Sensitivity, HVS	Transport Swab
CS	Culture & Sensitivity, LVS	Transport Swab
CS	Culture & Sensitivity, Pus	Transport Swab
CS	Culture & Sensitivity, Sputum	Sputum
SFC	Culture & Sensitivity, Stool	Stool
CS	Culture & Sensitivity, Throat	Transport Swab
CS	Culture & Sensitivity, Urethral Swab	Transport Swab
UCU	Culture & Sensitivity, Urine	20ml Urine
CS	Culture & Sensitivity, Wound – Bacterial Pathogens	Transport Swab
FCS	Culture, Fungus (No Identification)	Skin Scrapings/ Clippings in Sterile Container. Transport Swab for Other Sites.
GBS	Culture, Group B Streptococci	Transport Swab
GCC	Culture, N. Gonorrhoeae Culture	Transport Swab
NSUGCS	Culture, NSU Organisms: GC and other Bacterial Pathogens – Swab Only	1 Charcoal Swab & 2 Transport Swab
NSUGCU	Culture, NSU Organisms: GC and other Bacterial Pathogens – Urine Only	Urine in Sterile Container (Male Only)
CAC	Culture, Candida	Transport Swab
MYC	Culture, Urogenital Mycoplasma and Ureaplasma	Transport Swab
MRS	Culture & Sensitivity, Methicillin Resistant Staphylococcus Aureus (MRSA)	Transport Swab

MICROBIOLOGY

CODE	TEST	SPECIMEN
FOOD HANDLER TESTING		
FHX3	Stool & Urine CS for 3 Days (Salmonella & Shigella)	Stool and Urine
FH	Stool & Urine CS for 1 Day Only (Salmonella & Shigella)	Stool and Urine
SD1	Stool – Day 1	Stool. Indicate Day 1, Day 2, Day 3 for 3-Day Specimen on stool container
SD2	Stool – Day 2	
SD3	Stool – Day 3	
FHS	Stool for 1 Day Only	
SDX3	Stool for 3 Days	
SEMINAL FLUID		
SEM	Seminal Analysis	Patient to abstain for at least 3 days, maximum 7 days. Bring sample to Main Lab @ StarHub Green within 2 hours of collection.
SC	Sperm Count after Vasectomy	
URINE & STOOL INVESTIGATIONS		
PHC	Urine Phase Contrast	Fresh Urine 20ml
UAN	Urine FEME	Fresh Urine 20ml
UPR	Urine Pregnancy	Fresh Urine 20ml
SG	Urine Specific Gravity	Fresh Urine 20ml
SFE	Stool FEME	Fresh Stool
OCC	Stool Occult Blood	Fresh Stool
FOB	Stool Occult Blood (Immunological)	Fresh Stool
STLFO	Stool FEME & Occult Blood	Fresh Stool
ROV	Rotavirus Antigen Detection	Stool
US01	Urine FEME & Urine Culture	Fresh Urine 20ml
CEREBROSPINAL FLUID & EFFUSION		
FLD	Joint Fluid FEME (Appearance, Cell Count, Protein, Smear)	Sample in Sterile Container
ECR	Joint Effusion for Crystals	
GS	Smear for Microorganisms	

MOLECULAR BIOLOGY

CODE	TEST	SPECIMEN
MOLECULAR BIOLOGY (PCR)		
HBT	HBV DNA (Quantitative)	3ml EDTA
HPV *	HPV DNA (with Genotype 16 & 18)	HPV Swab
CGP	Chlamydia & Gonorrhoea PCR	Dry Swab (Female – Endocervical/HVS Swab) or 20ml Mid-stream Urine (Male)
HSVPCR	Herpes Simplex Virus I & II (PCR)	Dry Swab (Oral or Genital Swab)
VP3	DNA Probe Screen for Vaginitis (Affirm VPIII)	Dry Swab

* For HPV DNA with Pap Smear or ThinPrep, refer to page 126.

HISTOLOGY & CYTOLOGY

CODE	TEST
H201	Small Uncomplicated Specimens (Up to 3cm) Appendix, breast lump, cervical biopsy, fallopian tube (one), fibroid, ganglion cyst, lipoma, lymph node, cervical/ endometrial polyp, POC (products of conception), tonsil (one side), uterine curetting, etc.
H203	Medium or Small Complicated Specimens (3-6cm) Multiple breast lumps, fallopian tubes in same container, bone (< 3cm), fibroid, perianal fistula, gall bladder, lipoma, lymph node, ovarian cyst, ovarian biopsy, prostatic chips, synovium, thyroglossal cyst, perianal abscess, POC – ectopic, skin, tonsils (bilateral), one testis, etc.
H204	Large Specimens (> 6cm) Bone (3cm-6cm), breast cancer - wide excision, fibroid, lung resection, ovarian cyst, two testes, thyroid, uterus with or without ovaries or fallopian tubes, prostatic chips, etc.
H205	Large Complex Specimens Breast (mastectomy), bone (> 6cm), colon, kidney, limbs, rectum, stomach, spleen, THBSO for cancer, large cone biopsy of cervix, uterus & large ovarian cysts, Whipple's operation etc,
H206	LEEP Cone Biopsies LEEP cone biopsy, cervix (> 1cm)
H209	TRUS Prostatic Biopsies

HISTOLOGY & CYTOLOGY

CODE	TEST
SPECIALISED BIOPSIES (GIT, Respiratory Tract, Urinary Tract, Bladder Biopsy, etc.)	
HSBX	1-6 Pieces in 1 Container
HSBX1	7-12 Pieces in 1 Container, or 2 Containers of Specimen with 6 or Less Pieces Each
HSBX2	13-18 Pieces in 1 Container, or 3 Containers of Specimen with 6 or Less Pieces Each
HSBX3	19-24 Pieces in 1 Container, or 4 Containers of Specimen with 6 or Less Pieces Each
HIMP1	Immunoperoxidase, I (1-3 markers)
HIMP2	Immunoperoxidase, II (4-6 markers)
HIMP3	Immunoperoxidase, III (7-9 markers)
HIMPB	Breast Tumour Markers (3 markers)
ADDITIONAL HISTOLOGY SERVICES	
	Histochemical Stains
HCSUL	Histology Consultation
HSL	Request for Additional Slide
HFOTO	Request for Additional Photo
FROZEN SECTION (By Appointment Only, All Specimens to be Sent to Lab) – FS prices below are NETT excluding GST	
HFS1	1 Specimen
HFS2	2 Specimens
HFS3	3 Specimens
HFS4	>= 4 Specimens or 1 Specimen with Margins

HISTOLOGY & CYTOLOGY

CODE	TEST
H217	Non-gynaecological Fluid Cytology Pleural fluid, peritoneal fluid, pericardial fluid, joint fluid, cerebrospinal fluid (CSF), cyst fluid, etc.
H218	Urine Cytology
H220	Sputum Cytology
H224	Fine Needle Aspiration Cytology (FNAC) Non Deep-seated Organs: Breast, Thyroid, Lymph Node, Salivary Glands, etc. 1-6 Slides per Site
H224A	7-12 Slides per Site
H224B	> 12 Slides per Site
H225	Fine Needle Aspiration Cytology (FNAC) Deep-seated Organs that Require CT Guidance e.g. Lung, Pancreas, Liver, etc. 1-6 Slides per Site
H226	Anal Smear
NGBB	Brush Cytology Bronchial Brushing and Washings, GIT Brushings, Buccal Smear for Barr Bodies, etc.
PAP	Cervical Smear (Pap Smear)
UCYTO	Cervical Smear (Pap Smear): Urgent (1 Working Day Turnaround – Negative Smear)
TPREP	ThinPrep Test
UTPREP	ThinPrep Test: Urgent (1 Working Day Turnaround – Negative Smear)
HPV	HPV DNA (with Genotype 16 & 18)
HPVPAH	HPV DNA (with Genotype 16 & 18) and Pap Smear
HPVTHI	HPV DNA (with Genotype 16 & 18) and ThinPrep

BD Vacutainer® Order of Draw for Multiple Tube Collections



Designed for Your Safety

Reflects change in CLSI recommended Order of Draw (H3-A5, Vol 23, No 32, 8.10.2)

Closure Colour	Collection Tube	Determinations	Mix by Inverting
	• Citrate Tube*	PT, APTT, Lupus Anticoagulant, Anti-thrombin III, Protein S & C, Fibrinogen, Factor Assay, HLA B27	3 to 4 times
	• BD Vacutainer® SST™ Gel Separator Tube	Biochemistry, Virology, Immunology, Vit B12, Folate, Anticovulsant Drug Monitoring, Therapeutic Drug Monitoring (TDM) & other investigations that require serum (i.e. plain blood)	5 times
	• Serum Tube	Cold Agglutinins, Abnormal Blood Group Antibody Screen, Antibody Identification & Vitamin D2 & D3 (HPLC)	5 times
	• Trace Element Tube	Zinc, Copper, Aluminum, Manganese, Selenium	8 to 10 times
	• BD Vacutainer® PST™ Gel Separator Tube With Heparin	STAT Biochemistry, Plasma, Ammonia (in ice-pack), CD34, Blood, Alcohol, Toxicological Tests, Chromosomes Studies, Electrolytes, Renal Function Tests	8 to 10 times
	• Heparin Tube	STAT Biochemistry, Plasma, Ammonia (in ice-pack), CD34, Blood, Alcohol, Toxicological Tests, Chromosomes Studies, Electrolytes, Renal Function Tests, TB Spot	8 to 10 times
	• Trace Metal K ₂ EDTA Tube	Arsenic, Cadmium, Chromium, Mercury, Lead, Manganese Screening, CD4/CD8, Factor V Leiden	8 to 10 times
	• K ₂ EDTA Tube	FBC, PBF, MP, ESR, HBA1c, Cyclosporine A, G6PD, RBC Cholinesterase, ACTH, Renin, HB Electrophoresis, Thalassemia Screening, CD4/CD8, Factor V Leiden	8 to 10 times
	• Fluoride (glucose) Tube	Glucose, Lactic Acid (in ice-pack)	8 to 10 times

How it works?

STEP 1

- Visually check the sterility seal on the needle. Twist and remove white cap

STEP 2

- Screw holder securely onto needle

STEP 3

- Twist coloured needle cap and pull off

STEP 4

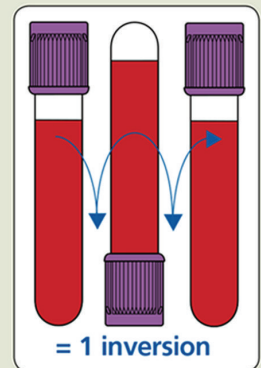
- Perform venipuncture according to procedures. Introduce tube into holder.

STEP 5

- Remove tube from holder when blood flow eases. If more samples are needed, repeat step 4

STEP 6

- Dispose of needle and holder as one unit into nearest sharps container





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