

The Factories (Medical Examinations) Regulations
 Laboratories providing toxicological analytical service for biological samples

Tests	Pathlab (price) Tel: 6742 9011 Mr BT Kua	Quest Lab Pte Ltd Tel: 6275 5501 Ms Jessica Chua	Analytical Lab (Spore) Pte Ltd Tel: 6338 2616	NUS (EPH) Tel: 6874 4989/99 Mr Ong Her Yam	SGH Tel:6321 4916 Dr Yeo Chin Pin	HSA-Analytical Toxicology Laboratory * Tel:6213 0740/43 Dr Yao Yi Ju	Chemical Laboratory Tel:6253 6122 Miss Jen Ng Hph:90014278
URINALYSIS							
A. Metabolites (Solvent)							
U-ethanol (alcohol)							✓
U-Ethylene glycol						✓	
U-2,5 hexanedione (n-hexane)							✓
U-Hippuric acid (Toluene)		✓	✓	✓		✓	✓
U-Mandelic Acid (styrene)			✓	✓			✓
U-methanol						✓	
U-Methylene chloride							✓
U-Methyl hippuric acid (xylene)		✓	✓	✓		✓	✓
U-MBK(MBK)							✓
U-t, t-Muconic Acid		✓	✓	✓			

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(benzene)							
U-phenol (benzene, phenol)							✓
U-spma (benzene)							✓
U-TCA (Trichloroethyle ne, Perchloroethyle ne)	✓	✓	✓				✓
B. Heavy metal exposure (includes trace metals)							
U-Aluminum					Pending		✓
U-Arsenic	✓	✓	✓		Pending - speciation add- on, includes As (III), As (V), monomethylarson ic acid, dimethylarsinic acid		✓
U-B2MG	✓	✓		✓	✓		
U-Cadmium		✓	✓		Pending		✓
U-Copper		✓			Pending		✓
U-Chromium		✓	✓		Pending		✓

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U-Fluoride	✓	✓	✓				✓
U-Lead	✓	✓	✓		Pending		✓
U-Manganese	✓	✓	✓		Pending		✓
U-Mercury		✓	✓		Pending		✓
U-nickel					Pending		✓
U-Selenium					Pending, includes Se(IV), Se(VI), SeMet		✓
U-Vanadium					Pending		
U-Zinc					Pending		✓
C. Gassing							
U-thiosulphate ¹ (Hydrogen sulphide)						✓	
BLOOD ANALYSIS							
A. Pesticide exposure							
RBC Cholinesterase (Organophosphate)		✓			Pending		

¹ For non-fatal cases; Urine specimen to be collected not more than 15 hours after exposure

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B. Solvent exposure							
Blood alcohol							✓
Blood Benzene							✓
Blood Cyanide						✓	
Blood ethyl acetate							✓
Blood Ethylene glycol						✓	
Blood Styrene			✓				
Blood Toluene		✓	✓			✓	✓
Blood methanol						✓	
Blood MBK							✓
Blood Methylene chloride							✓
Blood xylene							✓
C. Heavy metals							
Blood Aluminium						✓	✓
Blood Arsenic			✓			Pending (speciation add-on, includes As (III), As (V), monomethylarsonic acid, dimethylarsinic acid)	✓

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Blood Cadmium	✓	✓	✓	✓	Pending		✓
Blood Chromium			✓		Pending		✓
Blood Cobalt			✓				
Blood Copper		✓			✓		✓
Blood Iron		✓					✓
Blood Lead	✓	✓	✓	✓	✓		✓
Blood Magnesium							✓
Blood Manganese		✓	✓		Pending		✓
Blood Mercury		✓	✓		Pending		✓
Blood-Nickel							✓
Blood-Retinol binding protein (Cadmium)							
Blood-Selenium					Pending, includes Se(IV), Se(VI), SeMet		✓
Blood-Vanadium							
Blood Zinc					✓		✓
D. Gassing							
Blood Carboxyhaemog						✓	

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lobin (Carbon monoxide)							
Blood Sulphide (Hydrogen sulphide)							
Blood Thiosulphate ² (Hydrogen sulphide)						✓	
SERUM/PLASMA ANALYSIS							
A. Solvents							
Serum/plasma Toluene							
B. Heavy metals							
Serum/plasma Arsenic					Pending (speciation add- on, includes As (III), As (V), monomethylarson ic acid, dimethylarsinic acid)		
Serum/plasma B2MG (Cadmium)					✓		
Serum/plasma Cadmium					Pending		
Serum/plasma Lead					✓		

² For fatal cases

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Serum/plasma Manganese					Pending		
Serum/plasma Mercury					Pending		
C. Pesticides							
Serum/plasma Cholinesterase (Organosphosphates)					✓		

NB
 * Includes \$24 handling fee per specimen