

Heath Park



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Bwrdd Iechyd Prifysgol
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University Health Board

ACUTE CHEMISTRY TEST REPERTOIRE

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Acute chemistry section open Monday - Friday 9:00 to 17:00

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Assay	Sample requirements (ml)	Sample handling / Transport	Methodology	Reference Range	Turnaround Time (<i>maximum working days</i>)	EQA	Clinical Utility
Ca 15-3	1ml serum	If analysis is delayed >24hrs remove serum from gel/cells. Transport at RT	Abbott Alinity Immunoassay	<32 U/mL	1	UKNEQAS	tumour marker
Ca 19-9	1ml serum	If analysis is delayed >24hrs remove serum from gel/cells. Transport at RT	Abbott Alinity Immunoassay	<37 U/mL	1	UKNEQAS	tumour marker
Bile Acids	1ml serum		Abbott Clinical Chemistry – Enzyme cycling	1 - 10 umol/l	1	WEQAS	obstetric cholestasis
ACE	1ml serum/plasma	Store at 4 °C and transport at room temp	Abbott Clinical Chemistry - Enzymatic colorimetric	8-52IU/l	7	WEQAS	Sarcoidosis
Lp(a)	1ml serum/ plasma	Store at 4 °C and transport at 4 °C	Randox immuno turbidimetric	The cardiovascular risk <90 nmol/L- minor 90-200 nmol/L- moderate 200-400 nmo/L- high >400 nmol/L - very high	7	UKNEQAS	Cardiovascular risk factor

Assay	Sample requirements (ml)	Sample handling / Transport	Methodology	Reference Range	Turnaround Time (<i>maximum working days</i>)	EQA	Clinical Utility
Apolipoprotein A1	1ml serum	Can be stored at 2 - 8 °C for 3 days and can transported at this temperature. Send frozen if longer than 3 days	Abbott Alinity immunoturbidimetric	sex/ age specific-see report	7	UKNEQAS	Cardiovascular risk factor
Apolipoprotein B	1ml serum	Can be stored at 2 - 8 °C for 3 days and can transported at this temperature. Send frozen if longer than 3 days	Abbott Alinity immunoturbidimetric	sex/ age specific-see report	7	UKNEQAS	Cardiovascular risk factor
Acetaminophen	0.5ml Serum/Plasma	Store at 4 °C and transport at room temp	Abbott Diagnostic Enzymatic colorimetric	N/A	1	WEQAS	Analgesic drug
Salicylate	0.5ml Serum/Plasma	Store at 4 °C and transport at room temp	Abbott Diagnostic Enzymatic colorimetric	Therapeutic range 100-300mg/L	1	WEQAS	Analgesic drug
Ethanol	0.5ml Serum/Plasma	Store at 4 °C and transport at room temp	Abbott Diagnostic Enzymatic colorimetric	N/A	1	UKNEQAS	Alcohol
PSA	1ml serum	If analysis is delayed >24hrs remove serum from gel/cells and freeze at -20 °C and transport frozen	Abbott Alinity Immunoassay	sex/ age specific-see report	1	UKNEQAS	tumour marker
CEA	1ml serum	If analysis is delayed >24hrs remove serum from gel/cells. Transport at RT	Abbott Alinity Immunoassay	<5 ng/mL	1	UKNEQAS	tumour marker

Assay	Sample requirements (ml)	Sample handling / Transport	Methodology	Reference Range	Turnaround Time (<i>maximum working days</i>)	EQA	Clinical Utility
Ca125	1ml serum	If analysis is delayed >24hrs remove serum from gel/cells. Transport at RT	Abbott Alinity Immunoassay	<35 U/mL	1	UKNEQAS	tumour marker
BHCG	1ml serum	If analysis is delayed >24hrs remove serum from gel/cells. Transport at RT	Abbott Alinity Immunoassay	Female (non Pregnant) <5 U/L Male <1U/L	1	UKNEQAS	tumour marker
AFP	1ml serum	Store at 4 °C and transport at room temp	Abbott Alinity Immunoassay	Age specific – see report	1	UKNEQAS	tumour marker
NT pro BNP	1ml serum	Remove from clot, RBCs or separator gel before storing at 4 °C and transport at room temp	Abbott Alinity Immunoassay	<400ng/L heart failure unlikely 400 – 2000ng/L consider cardiac referral >2000ng/L consider urgent cardiac referral	1	UKNEQAS	Cardiac markers
Methotrexate	1ml serum/plasma (Lithium heparin)	Store at 4 °C and transport at room temp	Abbott Alinity Immunoassay	<i>Therapeutic ranges vary depending on treatment protocol and therefore not quoted</i>	1	UKNEQAS	Therapeutic drugs

*Please contact the department for current prices