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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 (maximum working days)	EQA	Clinical Utility
Ca 15-3	1ml serum	Store at 4 °C and transport at room temp	Abbott Alinity Immunoassay	<32 U/mL	1	U.K.NEQAS	tumour marker
Ca 19-9	1ml serum	Store at 4 °C and transport at room temp	Abbott Alinity Immunoassay	<37 U/mL	1	U.K.NEQAS	tumour marker
Bile Acids	1ml serum	Store at 4 °C and transport at room temp	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 room temp	Abbott Alinity turbimetry	<300 mg/L	7	WEQAS	Cardiovascular risk factor
Apolipoprotein A1	1ml serum	Store at 4 °C and transport at room temp	Abbott Alinity immunoturbidimetric	sex/ age specific- see report	7	WEQAS	Cardiovascular risk factor
Apolipoprotein B	1ml serum	Store at 4 °C and transport at room temp	Abbott Alinity immunoturbidimetric	sex/ age specific- see report	7	WEQAS	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	U.K.NEQAS	Alcohol

PSA	1ml serum	Store at 4 °C and transport at room temp	Abbott Alinity Immunoassay	sex/ age specific- see report	1	U.K.NEQAS	tumour marker
CEA	1ml serum	Store at 4 °C and transport at room temp	Abbott Alinity Immunoassay	<5 ng/mL	1	U.K.NEQAS	tumour marker
Ca125	1ml serum	Store at 4 °C and transport at room temp	Abbott Alinity Immunoassay	<35 U/mL	1	U.K.NEQAS	tumour marker
BHCG	1ml serum	Store at 4 °C and transport at room temp	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	U.K. NEQAS	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	U.K. NEQAS	Cardiac markers

\*Please contact the department for current prices