

Version 1

Regional Clinical Biochemistry Sample Tube Standardisation & Order of Draw

Clinical Biochemistry Speciality Forum

Active Date:01/06/2023

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		<u> </u>
	Tube Type	Clinical Biochemistry Tests
1.	Blood Cultures	Microbiology tests
_	- H	
2.	Sodium Citrate	Harmatalan Tari
	Plasma	Haematology Tests
3.	Plain Serum (no gel)	
		Specialist Drugs: Methotrexate Thiopentone, Lamotrigine, Levetiracetam
	Serum	K K K
	>	Specialist Endocrine: Androstenedione 17-Hydroxyprogesterone
Pae	ediatric	Androsteriedione 17-Hydroxyprogesterone
opt	ion	
4.	Serum Separator	<u>Proteins:</u> Alpha-1-Antitrypsin (AAT), Immunoglobulins (IgG, IgA, IgM), IgG subclasses (inc IgG4),
	(SST)	Beta-2-Microglobulin (B2M), Ceruloplasmin, C3, C4, Haptoglobin, Rheumatoid factor
		(RF), Serum Protein Electrophoresis (SPE) [inc. Alb & TP], Serum free light chains (FLC)
	Serum	Oligoclonal bands (with paired CSF) ALP Isoenzymes, CK Isoenzymes
\$	Separator	Oligoclonal bands (with paired CSF) ALP Isoenzymes, CK Isoenzymes
G		
Pae	ediatric options	General Biochemistry: Dithium
	TOO and poor 6 22	Bone Markers: Crosslaps (CTX), Ostase, Total P1NP
	E 480531 PVO CE	
	_	Vitamins: Vit D (Total) Vit A, Vit E (Protect from light)
		Specialist Endocrine: Anti-Mullerian Hormone (AMH) [For RFC Only]
		The male har normone (carry)
		Thyroglobulin & Thyroglobulin Antibody
<u> </u>		P3NP
5.	Lithium Heparin	General Chemistry:
	Plasma (with gel)	Profiles: ELEC: Na, K, Cl, Bicarbonate (CO2), Urea, Creatinine (CKD-EPI)
		LFT: TBil, ALP, Alb, AST, ALT, GGT (Adjusted Ca)
		BONE: Ca, PO4, Alb, ALP (Adjusted Ca)
\	are C	LIPID: Total Cholesterol, HDL, Triglycerides (LDL, TChol/HDL ratio, non-HDL Chol)
	7	IRON: Iron, Ferritin, Transferrin (Transferrin sat %)
		THYROID: TSH, FT4, (+ FT3 when required)
Pae	ediatric options	B12 & FOLATE: Folate, Vit B12
		Other: ACE, Amylase, CK, Beta-hCG, DBIL, CRP, Ethanol, LDH, Lipase, Magnesium, Paracetamol,
		Pro-BNP, Phosphate, Salicylate, Troponin-T, Total Protein, Urate, Osmolality. [Note: Serum SST Gold Top required for TP and Alb as part of SPE profile, and for ALP and CK
		[Note: Serum SST Gold Top required for TP and Alb as part of SPE profile, and for ALP and CK Isoenzymes].
	and the control of th	isocnizymesj.
	y+yallo:Dir y-tyal	TDM : Carbamazepine, Digoxin, Phenobarbitone, Phenytoin, Theophylline, Valproate.
1	刺びと多	[NOTE: Use Cold Tay for Uthing]

[NOTE: Use Gold Top for Lithium]



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Antibiotics: Amikacin, Gentamicin, Tobramycin, Vancomycin, Teicoplanin

Tumour Markers: AFP, CA19-9, CA-125, CEA, PSA

Endocrine: Anti-TPO, Cortisol, DHEAS, FSH, LH, Oestradiol, Progesterone, Prolactin, SHBG,

Testosterone.

NOTE: All tests listed above can be requested on the same Li-Hep bottle. The tests noted below require separate Li-Hep samples.

CarboxyHb and MetHb (heparinised blood gas syringe ideally)

Vit C (On ice & protect from light)

Bile Acids (Analysed at UH Lab, SET)

Amino Acids

Endocrine: Calcitonin [On ice & received in local lab within 4hr]

Growth Hormone (GH), IGF-1

Insulin [inc. Hypopak], C-peptide [Received in local lab within 4hr]

6. K-EDTA Plasma



Ammonia (on ice)



HbA1c



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Paediatric Options

Homocysteine (on ice)

Immunosuppressants:



Cyclosporine, Everolimus, Sirolimus, Tacrolimus





ACTH [On ice & must be received in lab within 30 min]



Aldosterone, Renin [Must be received in lab within 3 hr]



PTH [Must be received in lab within 12 hr]



Porphyrins (Protect from light)

Gut Hormones (inc. CgA, Neurokinin A, Gastrin, Glucagon, Pancreatic Polypeptide, Vasoactive Intestinal Peptide, Somatostatin)
[4 adult bottles needed for full profile. On ice & received in local lab within 2hr]

NOTE: A separate EDTA tube is required for Haematology tests eg FBC

7. Pink Cross-Match



Cross match **Blood Bank**

8. Dark Blue – Trace Elements



Trace

Trace Elements and Metals

NOTE: A Separate sample is required for Plasma metals and Blood metals.



Plasma Metals: Aluminium, Copper, Selenium, Zinc.

Blood Metals: Lead, Manganese, Chromium, Cobalt, Mercury, Cadmium, Arsenic.



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9. Fluoride Oxalate Plasma





Glucose, Lactate, 3-Hydroxybutyrate

Specialist Toxicology:



Methanol, Ethylene Glycol

NOTE – Sample consolidation information depicted in the table above. Some specialist requests will require a separate sample bottle for ease of processing and to avoid long delays or tests being missed.

NOTE – For referral tests (tests that are referred to other laboratories in the UK for testing), please consult local laboratory handbook or local lab contacts for information on sample requirements.

NOTE – Lithium Heparin tubes without gel are **NOT** suitable for routine Biochemistry testing.