

SJH CENTRE FOR LABORATORY MEDICINE & MOLECULAR PATHOLOGY			
Edition No.:	1	Biochemistry Working Instruction	Doc No: LF-BIO-0645
Approved by:	Mark Neville	Date: 13.04.26	Date of Issue: 15.04.26
Authorised By	Vivion Crowley	Date: 15.04.26	

Stability and storage of separated Biochemistry samples

Test	Sample Type	Stability @ 15-25°C	Stability @ 2-8°C δ
ICU Profile	Serum/Lithium Heparin	72 hrs	4 days
Renal Profile	Serum/Lithium Heparin	72 hrs	7 days
Liver Profile	Serum/Lithium Heparin	24 hrs	7 days
Bone Profile	Serum/Lithium Heparin	72 hrs	4 days
Lipid Profile	Serum/Lithium Heparin	5 days	7 days
17-OH-Progesterone	Serum	3 days	10 days
ACE	Serum	N/A	4 weeks
ACTH	EDTA ONLY	N/A	3 hours (10 weeks @ -20°C)
AFP	Serum/Lithium Heparin	72 hrs α	14 days
Aldosterone	EDTA ONLY	N/A	Store at -20°C only
ALP	Serum/Lithium Heparin	5d ε	7 days
Albumin	Serum/Lithium Heparin	4d ε	5 months
ALT	Serum/Lithium Heparin	48 hrs ε	7 days
AMH	Serum	3 days δ	5 days
Amikacin	Serum/Lithium Heparin	8 hrs δ	48 hours
Amylase	Serum/Lithium Heparin	7d δ	1 month
Androstenedione	Serum	3 days	10 days
AST	Serum/Lithium Heparin	72 hrs ε	7 days
BILD	Serum/Lithium Heparin	24 hrs δ	7 days
Bilirubin Total	Serum/Lithium Heparin	24 hrs δ	7 days
BNP	Serum/Lithium Heparin	72 hrs δ	6 days
Ca125	Serum/Lithium Heparin	72 hrs ε	5 days
Carbamazepine	Serum/Lithium Heparin	48 hrs	7 days
Ca153	Serum/Lithium Heparin	72 hrs ε	5 days
Ca19.9	Serum/Lithium Heparin	72 hrs ε	5 days
CGA	Serum	2 days	2 days (1 month @ -20°C)
CO2 / Bicarbonate	Serum/Lithium Heparin	1 hour	N/A
Calcitonin	Serum	4 hours	1 day (24 months @ -20°C)
Calcium	Serum/Lithium Heparin	5d ε	3 weeks
CEA	Serum/Lithium Heparin	72 hrs ε	14 days
Chloride	Serum/Lithium Heparin	7 d δ	7 days
Cholesterol	Serum/Lithium Heparin	7 d δ	7 days

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Cholinesterase	Serum/Lithium Heparin	7d (2-8°C) δ	7 days
CK	Serum/Lithium Heparin	48 hrs δ	7 days
Cortisol	Serum/Lithium Heparin	72 hrs ε	4 days
C-Peptide	Serum	4 hours	24 hours (30 days @ -20°C)
Creatinine	Serum/Lithium Heparin	72 hrs ε	7 days
CRP	Serum/Lithium Heparin	2 weeks δ	3 weeks
Cystatin C	Serum	7 days	7 days (6 months @ -20°C)
Digoxin	Serum	24 hrs ε	14 days
DHEAS	Serum	3 days	10 days
Ethanol	Serum/Lithium Heparin	48 hrs δ	2 weeks
FSH	Serum/Lithium Heparin	72 hrs ε	14 days
FT4	Serum/Lithium Heparin	72 hrs ε	7 days
HbA1C	EDTA ONLY	4 days	7 days
Gastrin	Serum	N/A	Store at -20°C only
Gentamicin	Serum/Lithium Heparin	4 hrs α	7 days
Glucose	FLOURIDE EDTA ONLY	3 days	72 hours
GGT	Serum/Lithium Heparin	48 hrs ε	7 days
Growth Hormone	Serum	N/A	Store at -20°C only
HCG	Serum/Lithium Heparin	24 hrs ε	14 days
HDL	Serum/Lithium Heparin	5 d ε	7 days
IGF-1	Serum	N/A	Store at -20°C only
Infliximab	Serum	7 days	7 days
Inliiximab Antibodies	Serum	7 days	7 days
In. Phos	Serum/Lithium Heparin	72 hrs ε	4 days
Insulin	Serum	4 hours	2 days (6 months @ -20°C)
Iron	Serum/Lithium Heparin	7 d δ	3 weeks
Isavuconazole	Serum	2 days	2 weeks
LDH	Serum/Lithium Heparin	7 d δ	4 days
LH	Serum/Lithium Heparin	72 hrs ε	14 days
LP(a)	Serum/Lithium Heparin	8 hrs δ	48 hours
Lithium	SERUM ONLY	24 hrs	7 days

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Magnesium	Serum/Lithium Heparin	7 d δ	7 days
Methotrexate	Serum	24 hrs	2 weeks
Oestradiol	Serum/Lithium Heparin	72 hrs ε	2 days
Osmolality	Serum/Lithium Heparin	3 hours	1 day (3 months @ -20°C)
Paracetamol	Serum/Lithium Heparin	24 hrs ε	7 days
Phenytoin	Serum/Lithium Heparin	4 Days	4 days
Posaconazole	Serum	2 days	2 weeks
Potassium	Serum/Lithium Heparin	72 hrs ε	14 days
Procalcitonin	Serum/Lithium Heparin	24 hrs δ	48 hours
Procollagen III	Serum	N/A	5 days (> 5 days @ -20°C)
Progesterone	Serum/Lithium Heparin	72 hrs ε	5 days
Prolactin	Serum/Lithium Heparin	5 d α	14 days
PSA- Free	Serum/Lithium Heparin	72 hrs ε	5 days
PSA- Total	Serum/Lithium Heparin	72 hrs ε	5 days
PTH	Serum/Lithium Heparin	6 hrs δ	2 days
Renin	EDTA ONLY	72 hours	> 72 hours store at -20°C only
Salicylate	Serum/Lithium Heparin	7 d α	2 weeks
SHBG	Serum/Lithium Heparin	72 hrs ε	7 days
Sodium	Serum/Lithium Heparin	5 d ε	14 days
T3	Serum/Lithium Heparin	72 hrs ε	14 days
Testosterone	Serum	72 hrs ε	10 days
Theophylline	Serum/Lithium Heparin	5 days	1 week
Thyroglobulin (TG)	Serum	8 hours	8 hours (1 month @ -20°C)
Thyroglobulin Antibody (TGA)	Serum	8 hours	8 hours (1 month @ -20°C)
Total Protein	Serum/Lithium Heparin	5 d ε	4 weeks
TRAb	Serum	8 hours	8 hours (1 month @ -20°C)
Triglycerides	Serum/Lithium Heparin	8 hours	8 hours (1 month @ -20°C)
Troponin	LITHIUM HEPARIN ONLY	6 hrs α	24 hours
TSH	Serum/Lithium Heparin	72 hrs ε	14 days
TT4	Serum/Lithium Heparin	72 hrs ε	8 days

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UIBC	Serum/Lithium Heparin	4 d δ	7 days
Urea	Serum/Lithium Heparin	5 d ϵ	7 days
Uric Acid	Serum/Lithium Heparin	3 d δ	7 days
Valproate	Serum/Lithium Heparin	2 days δ	7 days
Vancomycin	Serum	48 hrs	14 days
Vitamin A	SERUM (LIGHT PROTECTED ONLY)	1 week	2 weeks (3 months @ -20°C)
Vitamin D	Serum/Lithium Heparin	3 d α	4 days
Vitamin E	SERUM (LIGHT PROTECTED ONLY)	1 week	2 weeks (3 months @ -20°C)
Voriconazole	Serum	2 days	2 weeks

α - taken from WHO stability data

δ - taken from Kit insert

ϵ - taken from stability data worked up in SJH

Note: Above data is for separated samples except for HbA1c