



Standard Operating Procedure Title: **Annex 1: Reagents for blood clinical chemistry on AU400**
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Annex 1: Reagents for blood biochemistry on AU400

Olympus reagents

Ref.	Test	Test principle	Unit	Sample volume	Sample stability
Olympus	Na, K, Cl	Ion selective electrode	mmol/l	T20µl	12 hours at +4°C
Olympus OSR 6176	Calcium	Photometric color test arsenazo III	mmol/l	5µl	10 days at +4°C 8 months at -20°C
Olympus OSR 6122	Phosphorus	Photometric UV test Phosphomolybdate	mmol/l	3µl	1 day at +4°C 1 year at -20°C
Olympus OSR 6186	Iron	Photometric color test TPTZ method	µmol/l	15µl	4 days at +4°C
Olympus OSR 6189	Magnesium	Photometric color test Xylidylblue	mmol/l	2µl	2 weeks at +4°C 4 weeks at -20°C
Olympus OSR 6137	Bicarbonates	Enzymatic test (PEPC)	mmol/l	3 µl	6 hours at +4°C
Olympus OSR 6116	Cholesterol	Enzymatic color test CHOD-PAP method	mmol/l	3 µl	6 days at +4°C 4 months at -20°C
Olympus OSR 6187	HDL-Cholesterol	Immuno-inhibition Enzymatic color test	mmol/l	2µl	6 days at +4°C 4 months at -20°C
Olympus OSR 6183	LDL-cholesterol	Enzymatic color test CHOD-PAP method	mmol/l	2µl	6 days at +4°C 4 months at -20°C
Olympus OSR 6133	Triglyceride	Enzymatic color test GPO-PAP method	mmol/l	3µl	4 hours at +4°C
Olympus OSR 6121	Glucose	Enzymatic UV test Hexokinase method	mmol/l	2µl	12 hours at +4°C (plasma must be separated by centrifugation at least 1/2 hour after blood collection)
Olympus OSR 6134	Urea	Kinetic UV test Urease/GLDH method	mmol/l	2,5µl	3 days at +4°C
Olympus OSR 6178	Creatinine	Kinetic color test Jaffe method	µmol/l	20µl	7 days at +4°C

Olympus OSR 6136	Uric acid	Enzymatic color test Uricase/PAP method	μmol/l	4 μl	5 days at +4°C
Olympus OSR 6132	Total protein	Photometric color test Biuret method	g/l	3μl	6 days at +4°C
Olympus OSR 6102	Albumin	Photometric color test Bromocresol green	g/l	2 μl	6 days at +4°C
Olympus OSR 6112	Total bilirubin	Photometric color test Diazonium salt	μmol/l	6μl	12 hours at +4°C 3 months at -20°C
Olympus OSR 6106	Alpha-Amylase	Kinetic color test - CNPG3 (2-chloro-4-nitrophenyl-alpha-D-maltotriose)	U/l	2 μl	5 days at +4°C
Olympus OSR 6107	ALAT	Kinetic UV test IFCC (without PP)	U/l	10 μl	6 hours at +4°C
Olympus OSR 6109	ASAT	Kinetic UV test IFCC (without PP)	U/l	10 μl	6 hours at +4°C
Olympus OSR 6004	ALP	Photometric UV test IFCC (pNPP)	U/l	3μl	7 days at +4°C
Olympus OSR 6179	CK	Kinetic UV test (IFCC)	U/l	3μl	4 days at +4°C
Olympus OSR 6126	LDH	Kinetic UV test Pyruvate to Lactate	U/l	3μl	6 hours at +4°C

Other Reagents:

Ref.	Test	Test principle	Unit	Sample volume	Sample stability
Sigma 450-A	Bile acids	Enzymatic color test	μmol/l	25μl	
WAKO 46551	Free fatty acids	Enzymatic color test AcylCoAsynthetase+ATP)	mmol/l	8μl	2 hours at +4°C 24 hours at -20°C
Randox RB 1007	Beta-Hydroxybutyrate	Kinetic enzymatic method (oxidation to acetoacetate)	mmol/l	4μl	2 weeks at +4°C
Randox GY 105	Glycerol	Colorimetric method (glycerol kinase)	μmol/l	6μl	4 hours at +4°C
Roche 1822837	Lactic acid	Enzymatic color test lactate to pyruvate	mmol/l	3μl	2 days at +4°C
Roche 1930010	Fructosamine	Colorimetric method (NBT)	μmol/l	10μl	2 weeks at +4°C 2 months at -20°C
Biomerieux 61491	Phospholipids	Enzymatic color test (PLD/choline oxydase)	mmol/l	3μl	2 weeks at +4°C