

Plastic/Glass Collection tubes for Chemistry Tests
(Revised February 4, 2009)

Test

Parathyroid Hormone (PTH-B) Collected in lavender LT tube only.
(surgical use version) (PTH-S) (RRL site use version)

<u>Test</u>		<u>Plasma (PST)</u>	<u>Serum (SST)</u>
Electrophoresis (PROT)	(SIFE)	Not used	SST only
CA-125 cancer marker	(CA-125)	Not used	SST only
Folic Acid	(FOL)	Not used	SST only
Parathyroid Hormone	(PTH)	Not used	SST only
Lithium	(LI)	Not used	SST only
Vitamin B12	(B12)	Not used	SST only
Insulin	(INSU)	Not used	SST only

Freeze CA-125 specimen if not tested within 24 hours of collection.

On labels: "CHEM" can be drawn PST or SST "SERUM" is drawn SST only

<u>Test</u>		<u>Plasma (PST)</u>	<u>Serum (SST)</u>
Comprehensive Panel	(CMP)	Acceptable	Acceptable
Liver Panel	(HFT)	Acceptable	Acceptable
Basic Metabolic Panel	(BMP)	Acceptable	Acceptable
Renal Chemistry Panel	(RENL)	Acceptable	Acceptable
C-Reactive Protein	(CRP)	Acceptable	Acceptable
Carcinembryonic antigen	(CEA)	Acceptable	Acceptable
Cholinesterase	(PCHE)	Acceptable	Acceptable
Complement C3	(C3C)	Acceptable	Acceptable
Complement C4	(C4)	Acceptable	Acceptable
Cortisol	(COMO, COAF, COEV)	Acceptable	Acceptable
Electrolytes	(LYTE)	Acceptable	Acceptable
Estradiol	(E2S)	Acceptable	Acceptable
Ferritin	(FER)	Acceptable	Acceptable
Free Thyroxine	(FT4)	Acceptable	Acceptable
FSH	(FSH)	Acceptable	Acceptable
HCG	(QTCG and QLCG)	Acceptable	Acceptable
HDL Cholesterol	(HDL)	Acceptable	Acceptable
Immunoglobulin IgG	(IGG)	Acceptable	Acceptable
Immunoglobulin IgA	(IGA)	Acceptable	Acceptable
Immunoglobulin IgM	(IGM)	Acceptable	Acceptable
Iron	(FE)	Acceptable	Acceptable
LH	(LH)	Acceptable	Acceptable
Lipid Profile	(LPDP)	Acceptable	Acceptable
Prealbumin	(PAB)	Acceptable	Acceptable
Progesterone	(TST)	Acceptable	Acceptable
Prolactin	(PRL)	Acceptable	Acceptable
Testosterone	(TST)	Acceptable	Acceptable
Thyroid Cascade	(THYC)	Acceptable	Acceptable
Total PSA	(PSA)	Acceptable	Acceptable
Transferrin	(TRF)	Acceptable	Acceptable
TSH	(TSH)	Acceptable	Acceptable

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Urine-only tests (RRL technical site)

Amphetamines, Barbituates, Benzodiazepines, Cannabinoid metabolites, Cocaine metabolites, Opiates, Phencyclidine, Methadone.

EDTA (lavender top) tube tests

BNP, GLH (glycohemoglobin Alc), Intra-operative PTH (RRL)

<u>Test</u>		<u>Plasma (PST)</u>	<u>Serum (SST)</u>
Albumin	(ALB)	Acceptable	Acceptable
Alk. Phos.	(AP)	Acceptable	Acceptable
ALT	(ALT)	Acceptable	Acceptable
Amylase	(AMY)	Acceptable	Acceptable
AST	(AST)	Acceptable	Acceptable
Calcium	(CA)	Acceptable	Acceptable
Carbon Dioxide	(CO2)	Acceptable	Acceptable
Chloride	(CL)	Acceptable	Acceptable
Cholesterol	(CHOL)	Acceptable	Acceptable
CPK	(CPK)	Acceptable	Acceptable
Creatinine	(CREA)	Acceptable	Acceptable
Direct Bilirubin	(DBIL)	Acceptable	Acceptable
GGT	(GGT)	Acceptable	Acceptable
Glucose (any kind)		Acceptable	Acceptable
LDH	(LDH)	Acceptable	Acceptable
Lipase	(LIP)	Acceptable	Acceptable
Magnesium	(MG, NCMG)	Acceptable	Acceptable
Potassium	(K, NCK)	Acceptable	Acceptable
Phosphorus	(PHOS, NCPH)	Acceptable	Acceptable
Sodium	(NA)	Acceptable	Acceptable
Total Bilirubin	(TBIL)	Acceptable	Acceptable
Total Protein	(TP)	Acceptable	Acceptable
Triglycerides	(TGL)	Acceptable	Acceptable
Urea Nitrogen	(BUN)	Acceptable	Acceptable
Uric Acid	(URCA)	Acceptable	Acceptable

Lactic Acid (LA) Plasma / CSF Not used
Collect in gray top (sodium floride) tube, transport on ice in 15 minutes

Ammonia (AMON) Plasma only Not used
Collect in dark green top (lithium heparin) tube, transport on ice in 30 minutes

Note: If Lactic Acid or Ammonia specimen delivery is delayed, attach the canned text "LALATE" to the Lactic Acid test result and "LAMONLATE" to the Ammonia test result.

Whole Blood BMP and Ionized Calcium: lithium heparin tube NO GEL
 Ionized calcium tubes are stabile for 6 hours **as long as the cap is not removed.**

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Therapeutic Drug Monitoring

<u>Test</u>		<u>Plastic Plasma (PST)</u>	<u>Plastic Serum (SST)</u>
Amikacin	(PAMI, TAMI)	Acceptable	Acceptable
Carbamazepine	(CBZP)	Acceptable	Acceptable
Digoxin	(DIG)	Acceptable	Acceptable
Gentamicin	(PGEN, TGEN, GEN6)	Acceptable	Acceptable
Phenytoin (Dilantin)	(PTN)	Acceptable	Acceptable
Phenobarbital	(PHNO)	Acceptable	Acceptable
Salicylates	(SALI)	Acceptable	Acceptable
Theophylline	(THEO)	Acceptable	Acceptable
Tobramycin	(PTOB, TTOB, TOB6)	Acceptable	Acceptable
Valproic Acid	(VALP)	Acceptable	Acceptable
Vancomycin	(PVNX, TVNX)	Acceptable	Acceptable

* Therapeutic drug monitoring tests MUST be done on specimen within 24 hours of plastic SST or PST collection - including add-on TDM requests.