
Test Code 3905 (Rapid Plasma Reagin) RPR **RPR**

Methodology: Charcoal Agglutination
Performed: Monday – Friday (1st shift)
Reported: Same day

Specimen Required: **Collect:** One 6 mL SST. (Min: 4 mL SST)
Transport: 0.5 mL serum at 2-8°C. (Min: 0.25 mL)
Remarks: Separate serum from cells ASAP. EDTA plasma is also acceptable. All reactives will be followed by an FTA.
Unacceptable Conditions: CSF and other body fluids.
Stability: After separation from clot; Ambient: 2 days; Refrigerated: 14 days; Frozen: 1 year (avoid repeated freeze/thaw cycles)

Reference Interval: Non-reactive

Note: Only weakly reactive and reactive results are titered.

CPT Code(s): 86592, if non-reactive; 86592 + 86593, if titered

Test Code 6595 **RAST** **RAST**

Performed: Referral – ARUP
Reported: 2 – 5 days

Specimen Required: **Collect:** Depends on number of allergens (approximately 20 allergens from 1 full 10 mL red top tube)
Transport: 0.6 mL blood or 0.2 mL serum per allergens
Remarks: Separate serum from cells ASAP. **Provide list of allergens**
Unacceptable Conditions: Hemolyzed, icteric or lipemic samples.

Refer to Allergens for complete listing.

Rapid Streptococcus Group A Panel

See “Streptococcus Group A Panel (Rapid)”.

RBC Fecal

Refer to Stool, Blood.

RBC Count

Refer to Red Blood Cell Count.

RBC Folate

Refer to Folate, RBC.

Test Code 1767 **RBC Phenotype** **RBC PHENO**

Methodology: Hemagglutination
Performed: Blood Bank (Sunday – Saturday)
Reported: 4 hours

Specimen Required: **Collect:** One 7 mL pink to tube. (Min: 7 mL)
Transport: 7 mL pink.
Remarks: Do not freeze.
Stability: Ambient: 24 hours; Refrigerated: 72 hours

Reference Interval: By report.

CPT Code(s): 86905 x 8 Other antigens; 86906 Rh phenotype (DCEce)

Note: Includes, but not limited to: D, C, E, c, e, K, k, Fy^a, Fy^b, Jk^a, Jk^b, S, s. Indicate additional antigens.

Test Code 2729 **Red Blood Cell Count** **RBC**

Methodology: Automated Cell Count
Performed: Hematology (Sunday – Saturday)
Reported: 1 hour

Specimen Required: **Collect:** One 5 mL lavender (EDTA). (Min: 0.5 mL drawn in 3 mL lavender)
Transport: 3 mL whole blood (lavender, EDTA). (Min: 0.5 mL of thoroughly mixed whole blood)
Unacceptable Conditions: Frozen samples.
Stability: Ambient: 4 hours; Refrigerated: 24 hours

Reference Interval:

Age	1-3 days	4 –7 days	8-14 days	15-30 days	31-60 days	61-180 days	0.5-2 yrs	>2-6 yrs	>6-12 yrs	>12 yrs
Male (M/µg)	4.20-5.50	3.90-5.40	3.40-5.10	3.10-4.60	2.90-3.90	3.50-4.70	4.10-5.00	4.00-4.90	4.00-4.90	4.69-6.07
Female (M/µg)	3.40-5.40	3.50-5.50	3.20-5.00	3.10-4.60	2.90-4.10	3.40-4.60	4.10-4.90	4/00-4.90	4.00-4.90	3.88-5.46

CPT Code: 85041

Renal Stone

Refer to Stone Analysis (Calculi).

Test Code 4610 **Renal Function Panel** **RENAL PAN**

Methodology: Refer to individual components: Albumin, BUN, Calcium, Chloride, CO₂, Creatinine, Gucose, Phosphorus, Potassium, and Sodium
Performed: Sunday – Saturday
Reported: 2 – 4 hours

Specimen Required: **Collect:** One gold or red top. (Min: 6 mL). Acceptable: green (heparin).
Transport: Centrifuged gold promptly at ambient. If transport will be delayed, seprate and refrigerate 1 mL serum or heparinized plasma into a tightly capped tube and transport at 2-8°C.
Stability: Ambient: 4 hours; Refrigerated: 7 days; Frozen: 6 months.

Reference Interval: Refer to individual componenets.

CPT Code: 80069

Test Code 6615 **Renin, Single (Renin Activity)** **RENIN**

Methodology: Radioimmunoassay
Performed: Referral – ARUP (Sunday-Saturday)
Reported: 2 – 5 days

Specimen Required: **Collect:** One 5 mL lavender (EDTA). (Min: 3 mL lavender)
Transport: 2 mL plasma (lavender, EDTA), frozen. (Min: 1.2 mL)
Pediatric Minimum/Transport (single test with no repeat): 0.6 mL plasma (lavender, EDTA), frozen.
Remarks: **CRITICAL FROZEN if not received for testing within 24 hours. Separate samples must be submitted when multiple tests are ordered.** Separate plasma and freeze if not tested within 24 hours. If an upright sample is collected, patient should be upright (seated or standing) for at least 2 hours. Do not refrigerate. Do not collect in refrigerated tubes.
Unacceptable Conditions: Serum; heparinized, citrated or oxalated plasma; or refrigerated samples.
Stability: Ambient: 24 hours; Refrigerated: Unacceptable; Frozen: 3 months

Reference Interval:

Adult, normal sodium diet:		Children, normal sodium diet, supine:	
Supine:	0.2 – 1.6 ng/mL/hr	1 – 12 mo:	2.4 – 37.0 ng/mL/hr
Upright:	0.5 – 4.0 ng/mL/hr	> 1 – 3 yrs:	1.7 – 11.2 ng/mL/hr
		> 3 – 5 yrs:	1.0 – 6.5 ng/mL/hr
Cord blood:	4.0 – 32.0 ng/mL/hr	> 5 – 10 yrs:	0.5 – 5.9 ng/mL/hr
Newborn (1 – 7 days):	2.0 – 35.0 ng/mL/hr	> 10 – 15 yrs:	0.5 – 3.3 ng/mL/hr

Interpretive Data: Plasma renin activity measures enzyme ability to convert angiotensinogen to angiotensin I and is limited by the availability of angiotensinogen. Plasma renin activity is not an accurate indicator of enzyme activity when angiotensinogen is decreased. Renin Direct (0070217, RENIN D) measures the actual concentration of renin in the plasma, and therefore, is not dependent on angiotensinogen concentration.

CPT Code: 84244

Test Code 2492 **Reptilase Time** **REPTILASE**

Methodology: Clotting
Performed: Coagulation - Daily
Reported: 1 Hour

Specimen Required: **Collect:** One 5 mL lt. blue (sodium citrate). Refer to Hemostasis/Thrombosis section in the front of this User's Guide for specimen collection instructions. (Min: 3 mL lt. blue)
Transport: 2 mL platelet-poor plasma (lt. blue, sodium citrate), frozen. (Min: 1 mL)
Pediatric Minimum/Transport (single test with no repeat): 1 mL platelet-poor plasma (lt. blue, sodium citrate), frozen.
Remarks: **CRITICAL FROZEN. Separate samples must be submitted when multiple tests are ordered.**
Unacceptable Conditions: Serum, non-frozen or hemolyzed samples.
Stability: Ambient: 2 hours; Refrigerated: 4 hours; Frozen: 2 weeks

Reference Interval: ±2 seconds of the normal control

CPT Code: 85635

Respiratory Virus Culture

Refer to Culture - Virus.

Test Code 3594 **Respiratory Syncytial Virus Antigen** **V RSV**

Methodology: Enzyme Immunoassay
Performed: Microbiology – (Sunday – Saturday)
Reported: 24 hours; STAT testing available

Specimen Required: **Collect:** Sterile container. Nasal washing, nasal aspirate, or dacron or rayon nasopharyngeal swab. Source of specimen is required.
Transport: Nasal washing, nasal aspirate, or nasopharyngeal swab in leak proof sterile container at 2-8°C.
Remarks: Do not freeze. For nasal aspirates, add 3-4 mL of sterile saline to insure specimen does not dry out.
Unacceptable Conditions: Samples in EIA, GenProbe® or bacterial transport media. Dry swab. Calcium alginate swabs.
Stability: Refrigerated: 24 hours

CPT Code: 87807

Test Code 2745 **Reticulocyte Count** **RETIC CNT**

Methodology:
Performed: Hematology (Sunday – Saturday)
Reported: One hour

Specimen Required: **Collect:** One 3 mL lavender (EDTA). (Min: 0.5 mL drawn in 3 mL lavender)
Transport: 3 mL whole blood (lavender, EDTA). (Min: 0.5 mL of thoroughly mixed whole blood)
Unacceptable Conditions: Frozen samples and/or clotted samples.
Stability: Ambient: 8 hours; Refrigerated: 48 hours

Reference Interval:

Component	Adult Reference Ranges	Newborn/Infants (0 – 2 weeks)
Reticulocyte count	0.5 – 2.0%	2 – 6.5%
Absolute Reticulocyte Count	0.0200 – 0.0900 x 10 ⁶ /uL	
Immature Reticulocyte Fraction (IRF)	6 – 22%	

Note: Reticulocyte counts are reflective of the rate of red cell production in the bone marrow. Normally circulating reticulocytes account for approximately 1% of circulating RBCs. After a severe blood loss there is an increased production of red cells with elevation of reticulocyte counts and release of increasing numbers of immature reticulocytes into the circulation with corresponding elevation of the IRF (Immature Reticulocyte Fraction).

Our present manual method value is reported as a corrected reticulocyte count percentage based on the patient's hematocrit value. The new automated reticulocyte count percentage will represent an uncorrected value, which will be a higher value. In addition to the % reticulocytes, the new methodology will include an absolute reticulocyte number (x 10⁶/uL) and an IRF (Immature Reticulocyte Fraction).

Interpretive Data: The laboratory has changed hematology analyzers. Note new reference ranges that apply to the reticulocyte test.

CPT Code: 85045

Test Code 5325	Rheumatoid Factor	RF
-----------------------	--------------------------	-----------

Methodology: Nephelometry
Performed: Chemistry (Monday – Friday)
Reported: Same day

Specimen Required: **Collect:** One 6 mL gold or red top. Also acceptable plasma from heparin
Transport: Centrifuged gold or 1 mL serum or plasma at 2-8°C. (Min: 0.5 mL)
Remarks: Separate serum from cells ASAP.. Fasting recommended.
Unacceptable Conditions: Severely lipemic, contaminated, plasma (EDTA), or hemolyzed samples.
Stability: Ambient: 8 hours; Refrigerated: 7 days; Frozen: Not recommended (should be thawed only once).

Reference Interval: 0 – 20 IU/mL

CPT Code: 86431

Test Code 1780	Rh Immune Globulin (Ante-Partum)	RHIG-ANTE
-----------------------	---	------------------

Methodology:
Performed: Daily – 24 Hours
Reported: 2 hours

Specimen Required: **Collect:** One pink top tube: (6 mL Blood)
Stability: Ambient 24 hours; 72 hours

CPT Code(s): 86900, 86901, 86850

Test Code 1790	Rh Immune Globulin (Post-Partum)	RHIG POST
-----------------------	---	------------------

Methodology:
Performed: Daily – 24 Hours
Reported: 2 hours

Specimen Required: **Collect:** One pink top tube: (6 mL Blood)
Remarks: Must be drawn **after** delivery and in case of miscarriage after 12 weeks gestation.
Stability: Ambient 24 hours; 72 hours

CPT Code(s): 86900, 86901, 85460

Test Code 3596	Rotavirus Antigen	ROTAVIRUS
-----------------------	--------------------------	------------------

Methodology: Enzyme Immunoassay
Performed: Microbiology (Monday – Sunday) Day Shift
Reported: One day

Specimen Required: **Collect:** Random Stool. Specimen collected in a clean dry container free of detergent residue or obtained from a diaper.
Transport: 1 mL stool in leak-proof sterile container at 2-8°C or frozen or “pea” size amount of formed stool specimen..
Unacceptable Conditions: Sample in formalin or other preservatives, containers contaminated with media, preservatives, animal serum, or detergent.
Stability: Ambient: 2 hours; Refrigerated: 3 days; Frozen: -20°C: > 3 days

CPT Code(s): 87425

RPR

Refer to Rapid Plasma Reagin (RPR).

RSV Antigen

Refer to Respiratory Syncytial Virus Antigen.

Test Code 3908

Rubella Antibody, IgG

RUBELLA

Methodology: Chemiluminescence
Performed: Sunday - Saturday
Reported: Same day

Specimen Required: **Collect:** One 6 mL gold or red top tube. Heparinized or EDTA plasma is also acceptable
Transport: Centrifuged gold or 0.5 mL serum at 2-8°C. (Min: 0.2 mL) or 1.0 mL blood.
Remarks: This assay detects IgG antibodies.
Stability: Ambient: 8 hours; Refrigerated: 7 days; Frozen: 1 year

Reference Interval: Immune: ≥ 10 IU/ml
Non-Immune: < 10 IU/ml

CPT Code: 86762

Rubeola (Measles) Antibody, IgG

Refer to Measles (Rubeola) Antibody, IgG.
