
Lab Dept: Chemistry

Test Name: REVERSE T3

General Information

Lab Order Codes: RT3

Synonyms: Triiodothyronine, Reverse; Reverse Triiodothyronine; T3, Reverse

CPT Codes: 84482 – Triiodothyronine T3; reverse

Test Includes: Reverse T3 level reported in ng/dL.

Logistics

Test Indications: Reverse T3 (rT3) differs from thyroid hormones in that it has no effect on metabolic rate and indeed may be a waste product. Patients with abnormalities of energy metabolism may also show significant variations in serum rT3 levels. Caloric deprivation (fasting) usually results in higher concentrations of rT3, as do various systemic diseases involving fever. This appears to result from the conversion of T4 to rT3 being favored at the expense of T3 production. Hence, rT3 measurements may be useful in the diagnosis of the Sick Euthyroid Syndrome. Most drugs that affect thyroid function also change rT3 levels.

Lab Testing Sections: Chemistry - Sendouts

Referred to: Fairview University of Minnesota (Fairview Code: ARMISC) forward to ARUP laboratories (2007918)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: Results within 8 days, performed Sunday - Monday

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: Red top tube
Alternate: Lavender (EDTA) top tube

Draw Volume:	6 mL (Minimum: 3 mL) blood
Processed Volume:	2 mL (Minimum: 1 mL) serum/plasma
Collection:	Routine Venipuncture
Special Processing:	Lab Staff: Centrifuge specimen. Centrifuge and aliquot within 2 hours of collection. Aliquot serum/plasma into a screw top plastic vial. Store and ship at frozen temperatures. Forward to reference laboratory.
Patient Preparation:	None
Sample Rejection:	Unlabeled or mislabeled specimens; gross hemolysis

Interpretive

Reference Range:	Age:	Reference Range:
	0 – 17 years:	Not established
	18 and older:	9.0 – 27.0 ng/dL

Critical Values: N/A

Limitations: This test was developed and its performance characteristics determined by ARUP Laboratories. The U.S. Food and Drug Administration has not approved or cleared this test; however, FDA clearance or approval is not currently required for clinical use. The results are not intended to be used as the sole means for clinical diagnosis or patient management decisions.

Methodology: Liquid Chromatography – Tandem Mass Spectrometry

References: [Fairview Diagnostic Laboratories](#) (July 2013)
[ARUP Laboratories](#) (July 2013)

Updates: 7/24/2013: Reference range update, units previously reported as pg/mL.