

Reporting Title: Leukotriene E4, Random, U  
Performing Location: Rochester

Ordering Guidance:

Patients with mast cell activation syndrome may have chronically elevated leukotriene E4 (LTE4), however, in certain situations LTE4 can exhibit intermittent elevations. In these cases, a 24-hour urine collection is preferred. For 24-hour urine collection, order TLTE4 / Leukotriene E4, 24 Hour, Urine.

Additional Testing Requirements:

For an optimal evaluation, testing for urinary leukotriene E4 should be accompanied with laboratory investigations for the presence of serum tryptase (TRYPT / Tryptase, Serum), urinary 2,3-dinor 11 beta-prostaglandin F2 alpha (23BPR / 2,3-Dinor 11 Beta-Prostaglandin F2 Alpha, Random, Urine) and urinary N-methylhistamine (NMHR / N-Methylhistamine, Random, Urine).

Specimen Requirements:

Supplies: Sarstedt Aliquot Tube, 5 mL (T914)

Container/Tube: Plastic vial

Specimen Volume: 5 mL

Collection Instructions:

- 1. Within a few hours of symptom onset, collect a random urine specimen.
- 2. No preservative
- 3. Aliquot urine into a plastic vial and send frozen.

Specimen Type	Temperature	Time	Special Container
Urine	Frozen (preferred)	28 days	
	Refrigerated	7 days	
	Ambient	24 hours	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
603457	Leukotriene E4, Random, U	Alphanumeric	pg/mg Cr	33343-5
CRTFR	Creatinine, Random, U	Numeric	mg/dL	2161-8

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

Components:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
LTE4R	Leukotriene E4, Random, U	1	82542	Yes	No
CRTFR	Creatinine, Random, U	1	82570	Yes	No

**CPT Code Information:**

82542

82570

**Reference Values:**

LEUKOTRIENE E4

&lt; or =104 pg/mg creatinine

CREATININE

&gt; or =18 years old: 16-326 mg/dL

Reference values have not been established for patients who are younger than 18 years of age.