

**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 Minimum Volume:**

2 mL

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

Result ID	Reporting Name	Type	Unit	LOINC®
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	Orderable Separately
LTE4R	Leukotriene E4, Random, U			Yes	No
CRTFR	Creatinine, Random, U			Yes	No

**CPT Code Information:**

82542

82570

**Reference Values:**

LEUKOTRIENE E4

< or =104 pg/mg creatinine

CREATININE

> or =18 years old: 16-326 mg/dL

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