

Reporting Title: Leukotriene E4, 24 Hr, U

Performing Location: Rochester

Ordering Guidance:

Random urine collections are preferred for patients with episodic symptoms, (eg, in the context of allergic reactions brought on by specific environmental factors or mast cell activation syndrome). For random urine collection, order RLTE4 / Leukotriene E4, Random, 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 (23BPT / 2,3-Dinor 11 Beta-Prostaglandin F2 Alpha, 24 Hour, Urine) and urinary N-methylhistamine (NMH24 / N-Methylhistamine, 24 Hour, Urine).

Necessary Information:

Specimen volume (in milliliters) and duration are required.

Specimen Requirements:

Supplies: Sarstedt Aliquot Tube, 5 mL (T914)

Container/Tube: Plastic vial

Specimen Volume: 5 mL

Collection Instructions:

- 1. Start collection within a few hours of symptom onset and collect urine for 24 hours
- 2. No preservative preferred
- 3. Aliquot urine into a plastic vial and send frozen.

Additional Information: See [Urine Preservatives-Collection and Transportation for 24-Hour Urine Specimens](#) for multiple collection.

Urine Preservative Collection Options:

Note: The addition of preservative or application of temperature controls **must occur within 4 hours of completion** of the collection.

Ambient (no additive)	No
Refrigerate (no additive)	Preferred
Frozen (no additive)	OK
50% Acetic Acid	OK
Boric Acid	OK
Diazolidinyl Urea	No
6M Hydrochloric Acid	No
6M Nitric Acid	No
Sodium Carbonate	OK
Thymol	No
Toluene	No

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

	Ambient	24 hours	
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Ask at Order Entry (AOE) Questions:

Test ID	Question ID	Description	Type	Reportable
CRT2F	TM10F	Collection Duration	Plain Text	Yes
CRT2F	VL8F	Urine Volume	Plain Text	Yes

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
603458	Leukotriene E4, U	Alphanumeric	pg/mg Cr	101115-4
CR_AF	Creatinine, 24 HR, U	Numeric	mg/24 h	2162-6
TM10F	Collection Duration	Numeric	h	13362-9
VL8F	Urine Volume	Numeric	mL	3167-4
CRF24	Creatinine Concentration, 24 HR, U	Numeric	mg/dL	20624-3

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
LTE4T	Leukotriene E4, 24 Hr, U	1	82542	Yes	No
CRT2F	Creatinine, 24 HR, U			Yes	No

CPT Code Information:

82542

Reference Values:

LEUKOTRIENE E4:

< or =104 pg/mg creatinine

CREATININE:

Normal values mg per 24 hours:

Males: 930-2955 mg/24 hours

Females: 603-1783 mg/24 hours

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