

Reporting Title: Mast Cell Mediators, Random, U

Performing Location: Rochester

Ordering Guidance:

Patients with chronic mast cell activation often have chronically elevated N-methylhistamine (NMH) levels and will sometimes have intermittent NMH elevations. In these cases, a 24-hour urine collection is preferred. See MCM24 / Mast Cell Mediators, 24 Hour, Urine.

Specimen Requirements:

Patient Preparation:

1. Patient must not be taking monoamine oxidase inhibitors (MAOI) or aminoguanidine, as these medications increase N-methylhistamine (NMH) levels.
2. Patients taking aspirin or nonsteroidal anti-inflammatory drugs (NSAID) may have decreased concentrations of prostaglandin F2 alpha (23BP). If possible, the patient should discontinue use for 2 weeks or 72 hours, respectively, before specimen collection.

Supplies: Urine Container, 60 mL (T313)

Collection Container/Tube: Plastic urine container

Submission Container/Tube: Plastic, 60-mL urine bottle

Specimen Volume: 20 mL

Collection Instructions:

1. Collect a random urine specimen within a few hours of symptom onset.
2. No preservative.

Specimen Type	Temperature	Time	Special Container
Urine	Frozen	28 days	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
CRTFR	Creatinine, Random, U	Numeric	mg/dL	2161-8
620245	N-Methylhistamine, Random, U	Alphanumeric	mcg/g Cr	13781-0
620241	Leukotriene E4, Random, U	Alphanumeric	pg/mg Cr	33343-5
620243	2,3-dinor 11B-Prostaglandin F2a	Alphanumeric	pg/mg Cr	97658-9

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
CRTFR	Creatinine, Random, U	1	82570	Yes	No

RLTE1	Leukotriene E4, Random, U	1	82542	Yes	Yes
R23B1	2,3-dinor 11B-Prostaglandin F2a	1	84150	Yes	Yes
RNMH1	N-Methylhistamine, Random	1	82542	Yes	Yes

CPT Code Information:

82570
84150
82542

Reference Values:

LEUKOTRIENE E4:
< or =104 pg/mg creatinine

2,3-DINOR 11B-PROSTAGLANDIN F2a:
<1802 pg/mg creatinine

N-METHYLHISTAMINE:
0-5 years: 120-510 mcg/g creatinine
6-16 years: 70-330 mcg/g creatinine
>16 years: 30-200 mcg/g creatinine

CREATININE:
> or =18 years old: 16-326 mg/dL
Reference values have not been established for patients who are younger than 18 years.