

Reporting Title: Mast Cell Mediators, 24 Hour, U

Performing Location: Rochester

Ordering Guidance:

Random urine collections are preferred for patients with episodic symptoms, for example in the context of allergic reactions brought on by specific environmental factors. For random urine collections, order MCMRU / Mast Cell Mediators, Random, 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 urine for 24 hours.
2. No preservative.
3. Aliquot urine into plastic tube and send to lab.

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

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)	No
Frozen (No additive)	Preferred
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	28 days	

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®
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
620242	2,3-dinor 11B-Prostaglandin F2a	Alphanumeric	pg/mg Cr	94381-1
620244	N-Methylhistamine, 24 Hr	Alphanumeric	mcg/g Cr	44340-8
620240	Leukotriene E4, U	Alphanumeric	pg/mg Cr	101115-4

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
CRT2F	Creatinine, 24 HR, U			Yes	No
TLTE1	Leukotriene E4, 24 Hr, U	1	82542	Yes	Yes
T23B1	2,3-dinor 11B-Prostaglandin F2a	1	84150	Yes	Yes
TNMH1	N-Methylhistamine, 24 Hr, U	1	82542	Yes	Yes

CPT Code Information:

82542

84150

Reference Values:

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

2,3-DINOR 11B-PROSTAGLANDIN F2a:

<1802 pg/mg creatinine

LEUKOTRIENE E4:

< or =104 pg/mg creatinine

CREATININE:

Males: 930-2955 mg/24 h

Females: 603-1783 mg/24 h

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