MAYO CLINIC
Mayo Medical Laboratories

Test Definition: HCMM

Homocysteine (Total), Methylmalonic Acid, and Methylcitric Acid, Blood Spots

Reporting Title: HCMM, BS
Performing Location: Rochester

Specimen Requirements:

Container/Tube: Local newborn screening card
Specimen Volume: 2 blood spots
Collection Instructions:
1. Do not use device or capillary tube containing EDTA to collect specimen.
2. At least 1 spot should be complete, unpunched.
3. An alternative blood collection option for patients >1 year of age is fingerstick. Include type of feeding information on the collection card.
4. Do not expose specimen to heat or direct sunlight.
5. Do not stack wet specimens.
6. Keep specimen dry.
7. If collection of a new specimen is necessary, let blood dry on the Supplemental Newborn Screening Card (Supply T493) at ambient temperature in a horizontal position for 3 hours.
Forms: New York Clients-Informed consent is required. Please document on the request form or electronic order that a copy is on file. An Informed Consent for Genetic Testing (Supply T576) is available in Special Instructions.

Specimen Type	Temperature	Time
Whole blood	Ambient (preferred)	
	Frozen	
	Refrigerated	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
50246	Specimen	Alphanumeric		N/A
50247	Specimen ID	Alphanumeric		N/A
50248	Source	Alphanumeric		31208-2
50249	Order Date	Alphanumeric		N/A
50250	Reason For Referral	Alphanumeric		42349-1
50251	Method	Alphanumeric		49549-9
50252	Homocysteine	Numeric	nmol/mL	13965-9
50253	Methylmalonic Acid	Numeric	nmol/mL	13964-2
50254	Methylcitric Acid	Numeric	nmol/mL	26904-3

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Result ID	Reporting Name	Type	Unit	LOINC®
50255	Interpretation	Alphanumeric		59462-2
50256	Amendment	Alphanumeric		In Process
50257	Reviewed By	Numeric		N/A
50258	Release Date	Alphanumeric		N/A

Components:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
Billing only	methylmalonic acid and methylcitric acid	1	83918		
Billing only	homocsyteine	1	83090		

Reference Values:

Homocysteine: <15.0 nmol/mL
Methylmalonic acid: <5.0 nmol/mL
Methylcitric acid: <1.0 nmol/mL
An interpretive report will also be provided.