

# **Test Definition: HCMM**

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

Reporting Title: HCMM, BS Performing Location: Rochester

### **Ordering Guidance:**

The preferred test for evaluating adults for an inherited disorder of methionine, cobalamin, or propionate metabolism is CMMPP / Cobalamin, Methionine, and Methylmalonic Acid Pathways, Plasma or CMMPS / Cobalamin, Methionine, and Methylmalonic Acid Pathways, Serum.

### **Specimen Requirements:**

Supplies: Card-Blood Spot Collection (Filter Paper) (T493)

Container/Tube:

Preferred: Card-Blood Spot Collection (Filter Paper)

Acceptable: Local newborn screening card, Whatman Protein Saver 903 filter paper, PerkinElmer 226 (formerly Ahlstrom

226) filter paper, Munktell filter paper **Specimen Volume:** 2 Blood spots

#### **Collection Instructions:**

- 1. **Do not use** device or capillary tube containing EDTA or ACD to collect specimen. Sodium heparin is acceptable but must be spotted on card the same day as collected.
- 2. Completely fill at least 2 circles on the filter paper card (approximately 100 microliters blood per circle) using blood from a heel or finger stick.
- 3. Let blood dry on filter paper at ambient temperature in a horizontal position for a minimum of 3 hours.
- 4. Do not expose specimen to heat or direct sunlight.
- 5. Do not stack wet specimens.
- 6. Keep specimen dry.

### **Additional Information:**

- 1. For collection instructions, see <u>Blood Spot Collection Instructions</u>
- 2. For collection instructions in Spanish, see <u>Blood Spot Collection Card-Spanish Instructions</u> (T777)
- 3. For collection instructions in Chinese, see Blood Spot Collection Card-Chinese Instructions (T800)

### Forms:

- 1. <u>Biochemical Genetics Patient Information</u> (T602)
- 2. <u>If not ordering electronically, complete, print, and send a Biochemical Genetics Test Request</u> (T798) with the specimen.

Specimen Type	Temperature	Time	Special Container
Whole blood	Ambient (preferred)		FILTER PAPER
	Frozen		FILTER PAPER
	Refrigerated		FILTER PAPER

### **Result Codes:**

Result ID	Reporting Name	Туре	Unit	LOINC®
50252	Homocysteine	Numeric	nmol/mL	54301-7



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50253	Methylmalonic Acid	Numeric	nmol/mL	82385-6
50254	Methylcitric Acid	Numeric	nmol/mL	82386-4
50257	Reviewed By	Alphanumeric		18771-6
50255	Interpretation	Alphanumeric		59462-2

LOINC® and CPT codes are provided by the performing laboratory.

# **Supplemental Report:**

No

# **CPT Code Information:**

83090

83918

# **Reference Values:**

HOMOCYSTEINE:

<9.0 nmol/mL

### METHYLMALONIC ACID:

<4.0 nmol/mL

### METHYLCITRIC ACID:

<1.0 nmol/mL

An interpretive report will also be provided.