

Client: Example Client ABC123  
123 Test Drive  
Salt Lake City, UT 84108  
UNITED STATES

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB:** 12/4/1953  
**Gender:** Female  
**Patient Identifiers:** 01234567890ABCD, 012345  
**Visit Number (FIN):** 01234567890ABCD  
**Collection Date:** 01/01/2017 12:34

**Methylmalonic Acid, Serum or Plasma (Metabolic Disorders)**

ARUP test code 2005255

MMA Serum/Plasma, Metabolic Disorder **1.33 umol/L H (Ref Interval: 0.00-0.40)**

Slight elevation 0.41-0.99 umol/L  
consistent with mild vitamin B12 deficiency, renal  
insufficiency, or intravascular volume contraction.

Moderate elevation 1.00-9.99 umol/L  
consistent with mild vitamin B12 deficiency.

Massive elevation - Greater than or equal to 10 umol/L  
Consistent with significant vitamin B12 deficiency  
or with inborn errors of metabolism.

INTERPRETIVE INFORMATION: MMA Serum/Plasma,  
Metabolic Disorder

Test developed and characteristics determined by ARUP  
Laboratories. See Compliance Statement B: aruplab.com/CS

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
MMA Serum/Plasma, Metabolic Disorder	19-295-146212	10/22/2019 12:39:00 PM	10/24/2019 7:39:56 PM	10/25/2019 9:09:00 PM

END OF CHART

**H=High, L=Low, \*=Abnormal, C=Critical**

Unless otherwise indicated, testing performed at: