

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

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB:** 6/13/1979  
**Gender:** Female  
**Patient Identifiers:** 01234567890ABCD, 012345  
**Visit Number (FIN):** 01234567890ABCD  
**Collection Date:** 00/00/0000 00:00

**Vanillylmandelic Acid (VMA), Urine**

ARUP test code 0080421

Hours Collected	24 hr	
	Per 24h calculations are provided to aid interpretation for collections with a duration of 24 hours and an average daily urine volume. For specimens with notable deviations in collection time or volume, ratios of analytes to a corresponding urine creatinine concentration may assist in result interpretation.	
Total Volume	600 mL	
Creatinine, Urine - per volume	140 mg/dL	
Creatinine, Urine - per 24h	840 mg/d	(Ref Interval: 700-1600)
Vanillylmandelic Acid - per volume	4.2 mg/L	
Vanillylmandelic Acid - ratio to CRT	3 mg/gCR	(Ref Interval: 0-6) REFERENCE INTERVAL: VMA, Urine mg/g CRT Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).
Vanillylmandelic Acid - per 24h	2.5 mg/d	(Ref Interval: 0.0-7.0)
Vanillylmandelic Acid Interpretation	See Note	

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

**INTERPRETIVE INFORMATION: Vanillylmandelic Acid (VMA), Urine**

Vanillylmandelic acid (VMA) results are expressed as a ratio to creatinine excretion (mg/g CRT). No reference interval is available for results reported in units of mg/L. Slight or moderate increases in catecholamine metabolites may be due to extreme anxiety, essential hypertension, intense physical exercise, or drug interactions. Significant increase of one or more catecholamine metabolites (several times the upper reference limit) is associated with an increased probability of a secreting neuroendocrine tumor.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

**VERIFIED/REPORTED DATES**

Procedure	Accession	Collected	Received	Verified/Reported
Hours Collected	24-280-400142	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Total Volume	24-280-400142	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Creatinine, Urine - per volume	24-280-400142	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Creatinine, Urine - per 24h	24-280-400142	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Vanillylmandelic Acid - per volume	24-280-400142	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Vanillylmandelic Acid - ratio to CRT	24-280-400142	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Vanillylmandelic Acid - per 24h	24-280-400142	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Vanillylmandelic Acid Interpretation	24-280-400142	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

**END OF CHART**

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

*Unless otherwise indicated, testing performed at:*