

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

Physician: Doctor, Example

Patient: Patient, Example

DOB: 6/16/1982
Gender: Female
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 00/00/0000 00:00

Vanillylmandelic Acid (VMA) and Homovanillic Acid (HVA), Urine

ARUP test code 0080470

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	1775 mL	
Creatinine, Urine - per volume	54 mg/dL	
Creatinine, Urine - per 24h	958 mg/d	(Ref Interval: 700-1600)
Vanillylmandelic Acid - per volume	1.6 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	2.8 mg/d	(Ref Interval: 0.0-7.0)
Homovanillic Acid - per volume	2.0 mg/L	
Homovanillic Acid - ratio to CRT	4 mg/gCR	(Ref Interval: 0-8)

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

Unless otherwise indicated, testing performed at:

REFERENCE INTERVAL: HVA, 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).

Homovanillic Acid - per 24h 3.6 mg/d (Ref Interval: 0.0-15.0)

VMA and HVA Interpretation

See Note

INTERPRETIVE INFORMATION: VMA and HVA, Urine

Vanillylmandelic acid (VMA) and homovanillic acid (HVA) 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	22-242-145998	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Total Volume	22-242-145998	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Creatinine, Urine - per volume	22-242-145998	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Creatinine, Urine - per 24h	22-242-145998	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Vanillylmandelic Acid - per volume	22-242-145998	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Vanillylmandelic Acid - ratio to CRT	22-242-145998	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Vanillylmandelic Acid - per 24h	22-242-145998	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Homovanillic Acid - per volume	22-242-145998	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Homovanillic Acid - ratio to CRT	22-242-145998	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Homovanillic Acid - per 24h	22-242-145998	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
VMA and HVA Interpretation	22-242-145998	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: