

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

Physician: Doctor, Example

Patient: Patient, Example

DOB: 4/12/2004
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	Not Provided hr	
Total Volume	Not Provided mL	
Creatinine, Urine - per volume	190 mg/dL	
Creatinine, Urine - per 24h	Not Applicable mg/d	(Ref Interval: 400-1600)
Vanillylmandelic Acid - per volume	5.7 mg/L	
Vanillylmandelic Acid - ratio to CRT	3 mg/gCR REFERENCE INTERVAL: VMA, Urine mg/g CRT	(Ref Interval: 0-9) 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	Not Applicable mg/d	
Homovanillic Acid - per volume	6.4 mg/L	
Homovanillic Acid - ratio to CRT	3 mg/gCR REFERENCE INTERVAL: HVA, Urine mg/g CRT	(Ref Interval: 0-15) 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	Not Applicable mg/d	

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

Unless otherwise indicated, testing performed at:

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). VMA and HVA mass per day (mg/d) is not reported on specimens from patients younger than 18 years of age, for random specimens, urine collection periods other than 24 hours, or for urine volumes less than 400 mL/d. 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.

Test developed and characteristics determined by ARUP Laboratories.

See Compliance Statement B: aruplab.com/CS

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Hours Collected	20-231-139676	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Total Volume	20-231-139676	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Creatinine, Urine - per volume	20-231-139676	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Creatinine, Urine - per 24h	20-231-139676	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Vanillylmandelic Acid - per volume	20-231-139676	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Vanillylmandelic Acid - ratio to CRT	20-231-139676	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Vanillylmandelic Acid - per 24h	20-231-139676	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Homovanillic Acid - per volume	20-231-139676	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Homovanillic Acid - ratio to CRT	20-231-139676	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Homovanillic Acid - per 24h	20-231-139676	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
VMA and HVA Interpretation	20-231-139676	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: