

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

Physician: Doctor, Example

Patient: Patient, Example

DOB: 4/20/2020
Sex: Male
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 01/01/2017 12:34

Purines and Pyrimidines Panel, Urine

ARUP test code 2014523

Interpretation (PUPYU)

SEE NOTE

POSITIVE In this sample, the excretions of xanthine and uric acid were elevated. This combination of findings is suggestive of a biochemical diagnosis of Lesch-Nyhan syndrome, an X-linked disorder of purine metabolism characterized by hypotonia, dystonia, epilepsy, and self-mutilation. Consider confirmation by molecular analysis of HPRT.

-----ADDITIONAL INFORMATION-----
Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)
This test was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. This test has not been cleared or approved by the U.S. Food and Drug Administration.

Uracil	26 mmol/mol CRT	(Ref Interval: ≤ 30)
Thymine	<3 mmol/mol CRT	(Ref Interval: ≤ 3)
Adenine	<3 mmol/mol CRT	(Ref Interval: ≤ 3)
Hypoxanthine	59 mmol/mol CRT H	(Ref Interval: ≤ 30)
Xanthine	39 mmol/mol CRT H	(Ref Interval: ≤ 21)
Orotic Acid (PUPYU)	<3 mmol/mol CRT	(Ref Interval: ≤ 4)
Dihydroorotic	<3 mmol/mol CRT	(Ref Interval: ≤ 3)
Uric Acid	2582 mmol/mol CRT H	(Ref Interval: 200-2000)
Deoxythymidine	<3 mmol/mol CRT	(Ref Interval: ≤ 3)
Deoxyuridine	<3 mmol/mol CRT	(Ref Interval: ≤ 3)
Thymidine	<3 mmol/mol CRT	(Ref Interval: ≤ 3)
Uridine	<3 mmol/mol CRT	(Ref Interval: ≤ 3)
Deoxyadenosine	<3 mmol/mol CRT	(Ref Interval: ≤ 3)

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

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com
500 Chipeta Way, Salt Lake City, UT 84108-1221
Jonathan R. Genzen, MD, PhD, Laboratory Director

Patient: Patient, Example
ARUP Accession: 25-022-400045
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
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Deoxyinosine	<3 mmol/mol CRT	(Ref Interval: ≤ 3)
Deoxyguanosine	<3 mmol/mol CRT	(Ref Interval: ≤ 3)
Adenosine	<3 mmol/mol CRT	(Ref Interval: ≤ 3)
Inosine	<3 mmol/mol CRT	(Ref Interval: ≤ 3)
Guanosine	<3 mmol/mol CRT	(Ref Interval: ≤ 3)
AICAR	4 mmol/mol CRT H	(Ref Interval: ≤ 3)
Succinyladenosine	<3 mmol/mol CRT	(Ref Interval: ≤ 3)
Dihydrouracil	11 mmol/mol CRT H	(Ref Interval: ≤ 6)
Dihydrothymine	<3 mmol/mol CRT	(Ref Interval: ≤ 3)
N-carbamoyl-beta-alanine	17 mmol/mol CRT H	(Ref Interval: ≤ 10)
N-carbamoyl-beta-aminoisobutyric Acid	<3 mmol/mol CRT	(Ref Interval: ≤ 3)
S-Sulfocysteine	<3 mmol/mol CRT	(Ref Interval: ≤ 5)

Reviewed By (PUPYU)

SEE NOTE

RESULT: Patricia L Hall, PhD

Test Performed by:
Mayo Clinic Laboratories - Rochester Main Campus
200 First Street SW, Rochester, MN 55905
Lab Director: Nikola A. Baumann Ph.D.; CLIA# 24D0404292

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Interpretation (PUPYU)	25-022-400045	1/21/2025 2:30:00 PM	1/23/2025 10:55:21 AM	1/31/2025 1:56:00 PM
Uracil	25-022-400045	1/21/2025 2:30:00 PM	1/23/2025 10:55:21 AM	1/31/2025 1:56:00 PM
Thymine	25-022-400045	1/21/2025 2:30:00 PM	1/23/2025 10:55:21 AM	1/31/2025 1:56:00 PM
Adenine	25-022-400045	1/21/2025 2:30:00 PM	1/23/2025 10:55:21 AM	1/31/2025 1:56:00 PM
Hypoxanthine	25-022-400045	1/21/2025 2:30:00 PM	1/23/2025 10:55:21 AM	1/31/2025 1:56:00 PM
Xanthine	25-022-400045	1/21/2025 2:30:00 PM	1/23/2025 10:55:21 AM	1/31/2025 1:56:00 PM
Orotic Acid (PUPYU)	25-022-400045	1/21/2025 2:30:00 PM	1/23/2025 10:55:21 AM	1/31/2025 1:56:00 PM
Dihydroorotic	25-022-400045	1/21/2025 2:30:00 PM	1/23/2025 10:55:21 AM	1/31/2025 1:56:00 PM
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Deoxythymidine	25-022-400045	1/21/2025 2:30:00 PM	1/23/2025 10:55:21 AM	1/31/2025 1:56:00 PM
Deoxyuridine	25-022-400045	1/21/2025 2:30:00 PM	1/23/2025 10:55:21 AM	1/31/2025 1:56:00 PM
Thymidine	25-022-400045	1/21/2025 2:30:00 PM	1/23/2025 10:55:21 AM	1/31/2025 1:56:00 PM
Uridine	25-022-400045	1/21/2025 2:30:00 PM	1/23/2025 10:55:21 AM	1/31/2025 1:56:00 PM
Deoxyadenosine	25-022-400045	1/21/2025 2:30:00 PM	1/23/2025 10:55:21 AM	1/31/2025 1:56:00 PM

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Reviewed By (PUPYU)	25-022-400045	1/21/2025 2:30:00 PM	1/23/2025 10:55:21 AM	1/31/2025 1:56:00 PM

END OF CHART

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