

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

Physician: Doctor, Example

Patient: Patient, Example

DOB: 10/16/1953
Gender: Female
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 00/00/0000 00:00

Nicotine and Metabolites, Urine, Quantitative

ARUP test code 0092356

3-OH-Cotinine, Urn, Quant >5000 ng/mL
Nicotine is metabolized to cotinine, and 3-OH-cotinine is a metabolite of cotinine. After cessation from long-term or heavy use of nicotine products, 3-OH-cotinine may persist for weeks.

Anabasine, Urn, Quant 24 ng/mL
Anabasine is a minor alkaloid in the tobacco plant and is a biomarker of active tobacco use. However, anabasine is detected in the urine of approximately 5% of non-tobacco users.

Cotinine, Urn, Quant 3039 ng/mL
Cotinine is the major metabolite of nicotine and has a half-life of approximately 16 hours.

Nicotine, Urn, Quant >2000 ng/mL
Consistent with use of a nicotine-containing product within 1 week of specimen collection.

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

INTERPRETIVE INFORMATION: Nicotine and Metabolites,
 Urine, Quantitative

Methodology: Quantitative Liquid Chromatography-Tandem Mass Spectrometry

Positive cutoff:
 Nicotine 2 ng/mL
 Cotinine 5 ng/mL
 3-OH-Cotinine 50 ng/mL
 Nornicotine 2 ng/mL
 Anabasine 3 ng/mL

For medical purposes only; not valid for forensic use.

This test is designed to evaluate recent use of nicotine-containing products. Passive and active exposure cannot be discriminated definitively, although a cutoff of 100 ng/mL cotinine is frequently used for surgery qualification purposes. For smoking cessation programs or compliance testing, the absence of expected drug(s) and/or drug metabolite(s) may indicate non-compliance, inappropriate timing of specimen collection relative to drug administration, poor drug absorption, diluted/adulterated urine, or limitations of testing. The concentration value must be greater than or equal to the cutoff to be reported as positive. Anabasine is included as a biomarker of tobacco use, versus nicotine replacement. Interpretive questions should be directed to the laboratory.

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

Nornicotine, Urn, Quant

289 ng/mL

Nornicotine may be present in tobacco products or may result from metabolism of nicotine.

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
3-OH-Cotinine, Urn, Quant	19-081-143089	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Anabasine, Urn, Quant	19-081-143089	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Cotinine, Urn, Quant	19-081-143089	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Nicotine, Urn, Quant	19-081-143089	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Nornicotine, Urn, Quant	19-081-143089	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