

**Specimen Collected: 14-Jun-21 16:40**

Nicotine and Mets, Urn, Quant		Received: 14-Jun-21 16:40	Report/Verified: 14-Jun-21 16:41
Procedure	Result	Units	Reference Interval
3-OH-Cotinine, Urn, Quant	51	ng/mL	
Anabesine, Urn, Quant	<5	ng/mL	
Cotinine, Urn, Quant	<15	ng/mL	
Nicotine, Urn, Quant	<15 <sup>i1</sup>	ng/mL	

**Test Information**

i1: Nicotine, Urn, Quant  
 INTERPRETIVE INFORMATION: Nicotine and Metabolites,  
 Urine, Quantitative

Methodology: Quantitative Liquid Chromatography-Tandem Mass Spectrometry

## Positive cutoff:

Nicotine 15 ng/mL  
 Cotinine 15 ng/mL  
 3-OH- 50 ng/mL  
 Cotinine  
 Anabesine 5 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. Anabesine is included as a biomarker of tobacco use, versus nicotine replacement. Interpretive questions should be directed to the laboratory.

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.

\*=Abnormal, #=Corrected, C=Critical, f=Result Footnote, H-High, i-Test Information, L-Low, t-Interpretive Text, @=Performing lab

**Unless otherwise indicated, testing performed at:**

**ARUP Laboratories**

500 Chipeta Way, Salt Lake City, UT 84108

Laboratory Director: Tracy I. George, MD

**ARUP Accession:** 21-165-900209**Report Request ID:** 15021675**Printed:** 14-Jun-21 16:42

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