

TEST CHANGE

Nicotine and Metabolites, Urine, Quantitative

0092356, NICOTINEUR

Specimen Requirements:

Patient Preparation:

Collect: Random urine.

Specimen Preparation: Transfer 4 mL with no additives or preservatives urine to an ARUP [standard transport tube](#). ~~Standard Transport Tube~~. (Min: 1 mL)

Transport Temperature: Room temperature.

Unacceptable Conditions: Specimens exposed to repeated freeze/thaw cycles.

Remarks:

Stability: Ambient: 10 days; Refrigerated: 10 days; Frozen: 8 months

Methodology: Quantitative Liquid Chromatography-Tandem Mass Spectrometry

Performed: Sun-Sat

Reported: 1-~~5~~4 days

Note:

CPT Codes: 80323 (Alt code: G0480)

New York DOH Approval Status: This test is New York DOH approved.

Interpretive Data:

Methodology: Quantitative Liquid Chromatography-Tandem Mass Spectrometry

Positive cutoff:

Nicotine 15 ng/mL
Cotinine 15 ng/mL
3-OH-Cotinine 50 ng/mL
Anabasine 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

~~noncompliance~~~~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.

~~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.~~

Reference Interval:

Effective August 17, 2015

Drugs Covered	Cutoff Concentrations
Nicotine	15 ng/mL
Cotinine (metabolite)	15 ng/mL
3-OH-Cotinine (metabolite)	50 ng/mL
Anabasine (tobacco biomarker)	5 ng/mL