

TEST CHANGE

Nicotine and Metabolites, Serum or Plasma, Quantitative

0092361, NICOTINESP

Specimen Requirements:

Patient Preparation:

Collect: Plain red, green (sodium heparin), lavender (EDTA), pink (K2EDTA), or SST.

Specimen Preparation: Separate serum or plasma from cells ASAP or within 2 hours of collection. Transfer 4 mL serum or plasma to an ARUP Standard Transport Tube. (Min: 1 mL)

Transport Temperature: Refrigerated.

Unacceptable Conditions: Plasma or whole blood collected in lt. blue (sodium citrate). Specimens exposed to repeated freeze/thaw cycles. Hemolyzed specimens.

Remarks:

Stability: After separation from cells: Ambient: 1 week; Refrigerated: 2 weeks; Frozen: 3 years

Methodology: Quantitative Liquid Chromatography-Tandem Mass Spectrometry

Performed: Sun-Sat

Reported: 1-4 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: 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 10 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, or limitations of testing. This test cannot distinguish between use of tobacco and purified nicotine products. The concentration value must be greater than or equal to the cutoff to be reported as positive.

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 15, 2022

Drugs Covered	Cutoff Concentrations	
Nicotine	5 ng/mL	
Cotinine (metabolite)	5 ng/mL	