**Lab Dept:** Chemistry  
**Test Name:** NICOTINE AND COTININE CONFIRMATION, URINE

### General Information

**Lab Order Codes:** NICC  
**Synonyms:** N/A  
**CPT Codes:** 80323 – Alkaloids, not otherwise specified  
OR  
G0480 – Drug, test, definitive  
**Test Includes:** Nicotine, Cotinine

### Logistics

**Test Indications:** Stimulant; Alkaloid monitoring  
**Lab Testing Sections:** Chemistry - Sendouts  
**Referred to:** MedTox Laboratories (Test# 8585)  
**Phone Numbers:**  
MIN Lab: 612-813-6280  
STP Lab: 651-220-6550  
**Test Availability:** Daily, 24 hours  
**Turnaround Time:** 1 – 2 days  
**Special Instructions:** N/A

### Specimen

**Specimen Type:** Urine  
**Container:** Urine Cup  
**Draw Volume:** 10 mL urine  
**Processed Volume:** 10 mL (Minimum 0.7 mL) urine

**Note:** Submission of the minimum volume results in an elevated reporting limit and inability to repeat analysis.
Collection: Random or spot urine collection

Special Processing: Lab Staff: Mix urine well and remove aliquot into a screw-capped round bottom plastic vial. Store and ship at refrigerated temperatures. Forward promptly.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimens

**Interpretive**

Reference Range: A combined total of urine nicotine and cotinine (nicotine metabolite) Concentrations greater than 200 ng/mL indicates active use of a nicotine-containing product (tobacco or smoking cessation product). Urine concentrations less than 200 ng/mL could be consistent with passive exposure to tobacco smoke.

Critical Values: N/A

Limitations: N/A

Methodology: Immunoassay, Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)

References: MedTox Laboratories Web Page [www.medtox.com](http://www.medtox.com) (June 2013)