MAYO CLINIC
Mayo Medical Laboratories

1-800-533-1710

REFERRAL TEST UPDATE
NOTIFICATION DATE: June 8, 2011
EFFECTIVE DATE: July 11, 2011

THIOSULFATE, URINE
#90480

EXPLANATION OF CHANGE: The following changes to Unit code 90480, referred to NMS Labs, will be effective July 11, 2011. This will require file definition change.

	CURRENT	NEW
Methodology:	Colorimetry (C) Ion Chromatography (IC)	Colorimetry (C) Ion Chromatography (IC) Refractometer (REF) (if appropriate)
Current Always Message:	Reporting limit determined each analysis CREATININE (mg/L) ACGIH normal range in adults: 300-3400 mg/L (mean: 1000 mg/L) [0.3-3.4 g/L (mean: 1 g/L)] 1000-1600 mg/day(1.0-1.6 g/day) Analysis by Colorimetry (C). THIOSULFATE (mcg/mL) Normal range: 1-5 mcg/mL Following sulfide exposure, urine Thiosulfate peaks in 12 hours and declines rapidly thereafter. Note that Ammonium Sulfide exposure can also result in Methemoglobinemia and Sulfhemoglobinemia. Analysis by Ion Chromatography (IC) THIOSULFATE (Creatinine corrected) (mcg/g Creat) Normal: up to 8 mcg/g Creatinine 15 hours after a 60 minute exposure to air concentrations of 60 micromoles/L Hydrogen Sulfide resulted in urine concentrations up to 60 mcg/g Creatinine. Analysis by Ion Chromatography (IC).	Reporting limit determined each analysis Creatinine (mg/L) ACGIH normal range in adults: 300-3400 mg/L (mean: 1000 mg/L) [0.3-3.4 g/L (mean: 1 g/L)] 1000-1600 mg/day(1.0-1.6 g/day) Thiosulfate (mcg/mL) Normal range: approximately 2.9 +/- 2.5 mcg/mL (based on an average creatinine concentration of 1 g/L) Thiosulfate (Creatinine corrected) (mg/g Creat) Thiosulfate was detected in urine from 29 controls at 2.9 +/- 2.5 mg/g creatinine. Exposure to 1240 nmol/L (30 ppm) for 45 minutes resulted in a urinary thiosulfate concentration of 60 mg/g creatinine. Specific Gravity Confirmation Physiologic range: 1.010-1.030

QUESTIONS: Contact Mayo Medical Laboratories
Telephone: 800-533-1710