MAYO CLINIC
Mayo Medical Laboratories

TEST UPDATE/FILE DEFINITION CHANGE REFERRAL

NOTIFICATION DATE: September 7, 2012
EFFECTIVE DATE: October 1, 2012

XYLENE EXPOSURE PANEL, URINE
Test ID: FXYLP
Secondary ID: 90359

NOTE: Effective with this change, all orders placed for this test must be submitted in the alpha-numeric character Test ID format instead of the numeric Secondary ID. Result codes may also be subject to change. Please review Test Set-Up and Conversion Mapping information at: http://www.mayomedicallaboratories.com/test-notifications/index.html

EXPLANATION: Effective October 1, Test ID FXYLP, referred to NMS Labs, will reflect the following change.

CURRENT REPORTING NAME: Xylene Exposure Panel, Urine

NEW REPORTING NAME: Xylene Exposure Panel, U

CURRENT REFERENCE VALUE:
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)

Methylhippuric Acid
Synonym(s): Xylene Metabolite

Exposure to 100 ppm xylene in air for 8 hours,
produced urine concentrations of approximately 3 g/L.

Methylhippuric Acid (Creatinine Corrected)
Synonym(s): Xylene Metabolite

Following exposure to xylene:
Biological exposure index (ACGIH):
1.5 g Methylhippuric Acid/g Creatinine measured in an end of shift specimen.

NEW REFERENCE VALUE:
Reporting limit determined each analysis
Creatinine (mg/L)
U.S. Population (10^{th} – 90^{th} percentiles, median)
All participants:
335 - 2370 mg/L, median: 1180 (n=22,245)
Males:
495 – 2540 mg/L, median: 1370 (n=10,610)
Females:
273 – 2170 mg/L, median 994 (n=11,635)

Methylhippuric Acid (g/L)
Synonym(s): Methylhippurate; Xylene Metabolite

Exposure to 100 ppm xylene in air for 8 hours,
produced urine concentrations of approximately 3 g/L.

Methylhippuric Acid (Creatinine Corrected) (g/g Creat)
Synonym(s): Methylhippurate; Xylene Metabolite

Following exposure to Xylene:
Biological exposure index (ACGIH):
1.5 g Methylhippuric Acid/g Creatinine measured in an end
of shift specimen.

Specific Gravity Confirmation
Physiologic range: 1.010-1.030.

QUESTIONS: Contact Mary Erath, MML Laboratory Technologist Resource Coordinator
Telephone: 800-533-1710