



Laboratory Reference Centre
Hamilton General Hospital
Lab Administration
Level 1, Room 1-58
237 Barton Street East
Hamilton, ON L8L 2X2

T: 905-577-1477
F: 905-528-1464

www.LRChamilton.ca

A Service of the
HAMILTON REGIONAL
LABORATORY MEDICINE
PROGRAM

TO: REFERRED IN CLIENTS
FROM: Jeffery Cuneo, Business Coordinator
LRC Hamilton
DATE: May 14, 2018
SUBJECT: **Volatile screen and Ethylene Glycol testing**

NEW PLASMA VOLATILE SCREEN and ETHYLENE GLYCOL TESTING PANEL

Effective Monday June 11, 2018, the plasma volatile test screen (methanol, ethanol, isopropanol and acetone) and the test for ethylene glycol will be combined into a single panel. The single extraction protocol developed by Orton *et al* 2016 utilizes the same Gas Chromatography-Flame Ionization Detection (GC-FID) methodology that is used currently. The new single protocol improves the overall efficiency of the ordering process, reduces the cost relative to the 2 protocol format while maintaining analytical performance.

NEW

MNENOMIC
DALCEG

TESTS INCLUDED

Methanol, Ethanol, Isopropanol, Acetone, Ethylene Glycol

PREVIOUSLY

MNENOMIC
DALC
DEGLY

TESTS INCLUDED

Methanol, Ethanol, Isopropanol, Acetone
Ethylene Glycol

There are no changes in methodology, specimen requirements, reference intervals, reporting units or turnaround time. Validation of post mortem specimens is currently in progress. A notification will be distributed when this phase of the validation is complete.

Affiliated Partnerships:



References

Orton DJ, Boyd JM, Affleck D, Duce D, Walsh W, Seiden-Long I. (2016) One-step extraction and quantitation of toxic alcohols and ethylene glycol in plasma by capillary gas chromatography (GC) with flame ionization detection (FID). *Clin Biochem.* 49:132-138

For further information please contact:

Dr. Chetty

Discipline Director, Clinical Chemistry
Email: chetty@hhsc.ca

Dr. Macri

Clinical Chemist
Email: macri@hhsc.ca