MAYO CLINIC
Mayo Medical Laboratories

TEST OBSOLETIONS

NOTIFICATION DATE: June 10, 2013
EFFECTIVE DATE: July 16, 2013

EXPLANATION: The following tests will become obsolete on July 16, 2013. These tests will be replaced by one panel, EFPO, Electrolyte and Osmolality Panel, Feces.

CLFTP, 31739, Chloride, 24 Hr, Feces
MGFTP, 31740, Magnesium, 24 Hr, Feces
KFTP, 31741, Potassium, 24 Hr, Feces
CLFT, 60028, Chloride, 24 Hr, Feces
MGFT, 60030, Magnesium, 24 Hr, Feces
KFT, 60031, Potassium, 24 Hr, Feces
NAFT, 60032, Sodium, 24 Hr, Feces
EFP24, 60035, Electrolytes, 24 Hr, Feces
MGF, 81345, Magnesium, Random, Feces
EFP, 81488, Electrolytes, Random, Feces
NAF, 8374, Sodium, Random, Feces
KF, 8375, Potassium, Random, Feces
CAF, 8379, Calcium, Feces
CLF, 8467, Chloride, Random, Feces
UOSMF, 9258, Osmolality, Feces

RECOMMENDED ALTERNATIVE TEST: EFPO, Electrolyte and Osmolality Panel, Feces

EXPLANATION:
The fecal electrolyte and osmolality panel has been transitioned to the chemistry laboratory from the metals laboratory. Several analytes have been combined into a panel test offered for random specimens submitted for the work up of chronic diarrhea. The method comparison studies for sodium, potassium, and magnesium were acceptable with slope 0.9-1.1 and R2 >0.9, after accounting for differences in reporting units. In addition to magnesium, phosphorus has been added to the panel to further aid in the identification of suspected magnesium or phosphate containing laxative abuse. The osmotic gap calculation is provided and interpretive information accompanies the results to aid in the interpretation by providers.

USEFUL FOR:
- Workup of cases of chronic diarrhea
- Diagnosis of factitious diarrhea either from sample adulteration with hypotonic fluid, ingestion of supplements with unsuspected laxative properties, or surreptitious laxative abuse

METHODOLOGY:
Osmotic Gap: Calculation = 290 mOsm – (2[Na]+2[K])
Sodium, Potassium, and Chloride: Indirect Ion-Selective Electrode (ISE) Potentiometry
Osmolality: Freezing Point Depression
Phosphorous: Photometric, Ammonium Molybdate
Magnesium: Colorimetric Titration

REFERENCE VALUES:
Interpretive comment is provided

SPECIMEN REQUIREMENTS:
Collection Container/Tube: Stool container (Supply T291)
Specimen Volume: 10 g
Collection Instructions:
1. Collect a very liquid stool specimen.
Additional Information:
1. **Do not send formed stool.** In the event a formed stool is submitted, the test will not be performed. The report will indicate ***"A formed stool specimen was submitted for analysis. This test was not performed because it only has clinical value if performed on a watery stool specimen."***
2. Osmolality results will be reported as mOsm/kg regardless of collection duration.
3. Sodium, chloride, and potassium will be reported as mmol/L
4. Magnesium and phosphorous will be reported as mg/dL

SPECIMEN STABILITY INFORMATION:

Specimen Type	Temperature	Time
Fecal	Frozen (preferred)	14 days
	Ambient	48 hours
	Refrigerated	7 days

CPT CODES:
82438-Chloride
83735-Magnesium
84302-Sodium
84100-Phosphorus
84999 x 2-Osmolality, Potassium

DAY(S) SET UP: Monday through Friday; evening **ANALYTIC TIME**: 3 days

QUESTIONS: Contact your Mayo Medical Laboratories' Regional Manager or
Jim Nielsen, MML Laboratory Technologist Resource Coordinator
Telephone: 800-533-1710