Effective Date:

Monday, April 30, 2018

# Test Updates

## Immediate Action

In our continuing effort to provide you with the highest quality toxicology laboratory services available, we have compiled important changes regarding a number of tests we perform. Listed below are the types of changes that may be included in this notification, effective Monday, April 30, 2018

**Test Changes -** Tests that have had changes to the method/ CPT code, units of measurement, scope of analysis, reference comments, or specimen requirements.

**Discontinued Tests -** Tests being discontinued with alternate testing suggestions.

Please use this information to update your computer systems/records. These changes are important to ensure standardization of our mutual laboratory databases.

If you have any questions about the information contained in this notification, please call our Client Support Department at (866) 522-2206. Thank you for your continued support of NMS Labs and your assistance in implementing these changes.

The CPT Codes provided in this document are based on AMA guidelines and are for informational purposes only. NMS Labs does not assume responsibility for billing errors due to reliance on the CPT Codes listed in this document.

Effective Date:

Monday, April 30, 2018

# Test Updates

| Test Code | Test Name | Test Name | Method / CPT Code | Specimen Req. | Stability | Scope | Units | Reference Comments | Discontinue |
|---|---|---|---|---|---|---|---|---|---|
| 5465B | Bromine - Total Confirmation, Blood | • | • | • | • | • | | | |
| 0720B | Bromine - Total, Blood | • | • | • | • | • | | | |
| 0720SP | Bromine - Total, Serum/Plasma | • | • | • | • | • | | | |
| 0720U | Bromine - Total, Urine | • | • | • | • | • | | | |
| 2092B | Fluoride Preservative Determination, Blood | | • | | | | | | |
| 2090LI | Fluoride Preservative Determination, Liquid | • | • | | | • | | | |
| 2090SP | Fluoride, Serum/Plasma | | • | • | | | | • | |
| 2970B | Methyl Bromide as Metabolite, Blood | | • | • | • | • | | | |
| 2970SP | Methyl Bromide as Metabolite, Serum/Plasma | | • | • | • | • | | | |
| 2970U | Methyl Bromide as Metabolite, Urine | | • | • | • | • | | | |
| 3250U | Oxalate, Urine | | | | | | | • | |

# Test Updates

## Test Changes

### 5465B Bromine - Total Confirmation, Blood

Summary of Changes:
Test Name was changed.
Specimen Requirements were changed.
Specimen Requirements (Specimen Container) were changed.
Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.
Stability was changed.
Scope of Analysis was changed.
Bromine - Total was added.
Methods/CPT Codes were changed [ICP-MS (82542)]
Bromide was removed.

Specimen Requirements: 6 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Avoid exposure to gadolinium or iodine based contrast media for 96 hours prior to sample collection. Do not use disinfectants containing iodine, such as Betadine®, during venipuncture.
Rejection Criteria: Gray top tube (Sodium Fluoride / Potassium Oxalate). Lavender top tube (EDTA).
Stability: Room Temperature: 30 day(s)
Refrigerated: 30 day(s)
Frozen (-20 °C): 12 month(s)
Scope of Analysis: Method (CPT Code) ICP-MS (82542): Bromine - Total

| Compound Name | Units | Reference Comment |
|---|---|---|
| Bromine - Total | mg/L | The population reference interval derived from NMS Labs data (n=136) is usually between 1.4 and 8.8 mg/L (2.5th - 97.5th percentiles). Background concentrations are diet dependent. Workers exposed to methyl bromide with blood bromide concentrations greater than 12 mg/L have shown 3.5 times higher risk of electroencephalogram disturbances than compared to those with normal levels. |

### 0720B Bromine - Total, Blood

## Test Changes

Summary of Changes: Test Name was changed.
Specimen Requirements were changed.
Specimen Requirements (Specimen Container) were changed.
Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.
Stability was changed.
Scope of Analysis was changed.
Bromine - Total was added.
Methods/CPT Codes were changed [ICP-MS (82542)]
Bromide was removed.

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Avoid exposure to gadolinium or iodine based contrast media for 96 hours prior to sample collection. Do not use disinfectants containing iodine, such as Betadine®, during venipuncture.
Rejection Criteria: Gray top tube (Sodium Fluoride / Potassium Oxalate). Lavender top tube (EDTA).
Stability: Room Temperature: 30 day(s)
Refrigerated: 30 day(s)
Frozen (-20 °C): 12 month(s)
Scope of Analysis: Method (CPT Code) ICP-MS (82542): Bromine - Total

| Compound Name | Units | Reference Comment |
|---|---|---|
| Bromine - Total | mg/L | The population reference interval derived from NMS Labs data (n=136) is usually between 1.4 and 8.8 mg/L (2.5th - 97.5th percentiles). Background concentrations are diet dependent. Workers exposed to methyl bromide with blood bromide concentrations greater than 12 mg/L have shown 3.5 times higher risk of electroencephalogram disturbances than compared to those with normal levels. |

**0720SP Bromine - Total, Serum/Plasma**

Summary of Changes: Test Name was changed.
Specimen Requirements were changed.
Specimen Requirements (Specimen Container) were changed.
Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.
Stability was changed.
Scope of Analysis was changed.
Bromine - Total was added.
Methods/CPT Codes were changed [ICP-MS (82542)]
Bromide was removed.

# Test Updates

## Test Changes

| | |
|---|---|
| Specimen Requirements: | 2 mL Serum or Plasma |
| Transport Temperature: | Refrigerated |
| Specimen Container: | Plasma: Royal Blue top tube (Trace metal-free; EDTA), Serum: Royal Blue top tube (Trace metal-free; No additive) |
| Light Protection: | Not Required |
| Special Handling: | Avoid exposure to gadolinium or iodine based contrast media for 96 hours prior to sample collection. Do not use disinfectants containing iodine, such as Betadine®, during venipuncture.<br>Promptly centrifuge and separate Serum or Plasma into a deionized water rinsed plastic screw capped vial using approved guidelines. |
| Rejection Criteria: | Gray top tube (Sodium Fluoride / Potassium Oxalate). Lavender top tube (EDTA).<br>Polymer gel separation tube (SST or PST). |
| Stability: | Room Temperature: 30 day(s)<br>Refrigerated: 30 day(s)<br>Frozen (-20 °C): 12 month(s) |
| Scope of Analysis: Method (CPT Code) | ICP-MS (82542): Bromine - Total |

| Compound Name | Units | Reference Comment |
|---|---|---|
| Bromine - Total | mg/L | The population reference interval derived from NMS Labs data (n=129) is usually between 0.9 and 7.3 mg/L (2.5th - 97.5th percentiles)<br>Background concentrations are diet dependent.<br>Workers exposed to methyl bromide with blood bromide concentrations greater than 12 mg/L have shown 3.5 times higher risk of electroencephalogram disturbances than compared to those with normal levels.<br>The ratio of blood to plasma concentrations is 0.7 - 0.8. |

**0720U Bromine - Total, Urine**

| | |
|---|---|
| Summary of Changes: | Test Name was changed.<br>Specimen Requirements were changed.<br>Specimen Requirements (Specimen Container) were changed.<br>Specimen Requirements (Special Handling) were changed.<br>Specimen Requirements (Rejection Criteria) were changed.<br>Stability was changed.<br>Scope of Analysis was changed.<br>Bromine - Total was added.<br>Methods/CPT Codes were changed [ICP-MS (82542)]<br>Bromide was removed |

# Test Updates

## Test Changes

| | |
|---|---|
| Specimen Requirements: | 2 mL Urine |
| Transport Temperature: | Refrigerated |
| Specimen Container: | Plastic container (Trace metal-free rinsed with deionized water), Plastic container (preservative-free) |
| Light Protection: | Not Required |
| Special Handling: | Avoid exposure to gadolinium or iodine based contrast media for 96 hours prior to sample collection. |
| Rejection Criteria: | Gray top tube (Sodium Fluoride / Potassium Oxalate). Lavender top tube (EDTA). |
| Stability: | Room Temperature: 30 day(s)<br>Refrigerated: 30 day(s)<br>Frozen (-20 °C): 12 month(s) |
| Scope of Analysis: Method (CPT Code) | ICP-MS (82542): Bromine - Total |

| Compound Name | Units | Reference Comment |
|---|---|---|
| Bromine - Total | mg/L | The population reference interval derived from NMS Labs data (n=126) is usually between <0.5 and 6.2 mg/L (2.5th - 97.5th percentiles). Background concentrations are diet dependent. |

### 2092B Fluoride Preservative Determination, Blood

| | |
|---|---|
| Summary of Changes: | Methods/CPT Codes were changed [ISE (82735)] |
| Scope of Analysis: Method (CPT Code) | ISE (82735): Fluoride Preservative |

### 2090LI Fluoride Preservative Determination, Liquid

| | |
|---|---|
| Summary of Changes: | Test Name was changed.<br>Scope of Analysis was changed.<br>Fluoride Preservative was added.<br>Methods/CPT Codes were changed [ISE (None)]<br>Fluoride was removed. |
| Scope of Analysis: Method (CPT Code) | ISE (None): Fluoride Preservative |

| Compound Name | Units | Reference Comment |
|---|---|---|
| Fluoride Preservative | mg/L | |

### 2090SP Fluoride, Serum/Plasma

| | |
|---|---|
| Summary of Changes: | Specimen Requirements were changed.<br>Specimen Requirements (Specimen Container) were changed.<br>Reference Comment was changed.<br>Methods/CPT Codes were changed [ISE (82735)] |

# Test Updates

## Test Changes

| | |
|---|---|
| Specimen Requirements: | 2 mL Serum or Plasma |
| Transport Temperature: | Refrigerated |
| Specimen Container: | Lavender top tube (EDTA), Red top tube (no additive) |
| Light Protection: | Not Required |
| Special Handling: | Promptly centrifuge and separate Serum or Plasma into a plastic screw capped vial using approved guidelines. |
| Rejection Criteria: | Gray top tube (Sodium Fluoride / Potassium Oxalate). Polymer gel separation tube (SST or PST). |
| Scope of Analysis: Method (CPT Code) | ISE (82735): Fluoride |

| Compound Name | Units | Reference Comment |
|---|---|---|
| Fluoride | mg/L | Reference range: Generally less than 0.13 mg/L. The reference range is dependent on the level of water fluoridation and its consumption. |

**2970B Methyl Bromide as Metabolite, Blood**

| | |
|---|---|
| Summary of Changes: | Specimen Requirements were changed.<br>Specimen Requirements (Specimen Container) were changed.<br>Specimen Requirements (Special Handling) were changed.<br>Specimen Requirements (Rejection Criteria) were changed.<br>Stability was changed.<br>Scope of Analysis was changed.<br>Bromine - Total was added.<br>Methods/CPT Codes were changed [ICP-MS (82542)]<br>Bromide was removed. |

| | |
|---|---|
| Specimen Requirements: | 2 mL Blood |
| Transport Temperature: | Refrigerated |
| Specimen Container: | Royal Blue top tube (Trace metal-free; EDTA) |
| Light Protection: | Not Required |
| Special Handling: | Avoid exposure to gadolinium or iodine based contrast media for 96 hours prior to sample collection. Do not use disinfectants containing iodine, such as Betadine®, during venipuncture. |
| Rejection Criteria: | Gray top tube (Sodium Fluoride / Potassium Oxalate). Lavender top tube (EDTA). |
| Stability: | Room Temperature: 30 day(s)<br>Refrigerated: 30 day(s)<br>Frozen (-20 °C): 12 month(s) |
| Scope of Analysis: Method (CPT Code) | ICP-MS (82542): Bromine - Total |

# Test Updates

## Test Changes

| Compound Name | Units | Reference Comment |
|---|---|---|
| Bromine - Total | mg/L | The population reference interval derived from NMS Labs data (n=136) is usually between 1.4 and 8.8 mg/L (2.5th - 97.5th percentiles). Background concentrations are diet dependent. Workers exposed to methyl bromide with blood bromide concentrations greater than 12 mg/L have shown 3.5 times higher risk of electroencephalogram disturbances than compared to those with normal levels. |

### 2970SP Methyl Bromide as Metabolite, Serum/Plasma

| | |
|---|---|
| Summary of Changes: | Specimen Requirements were changed.<br>Specimen Requirements (Specimen Container) were changed.<br>Specimen Requirements (Special Handling) were changed.<br>Specimen Requirements (Rejection Criteria) were changed.<br>Stability was changed.<br>Scope of Analysis was changed.<br>Bromine - Total was added.<br>Methods/CPT Codes were changed [ICP-MS (82542)]<br>Bromide was removed. |
| Specimen Requirements: | 2 mL Serum or Plasma |
| Transport Temperature: | Refrigerated |
| Specimen Container: | Plasma: Royal Blue top tube (Trace metal-free; EDTA), Serum: Royal Blue top tube (Trace metal-free; No additive) |
| Light Protection: | Not Required |
| Special Handling: | Avoid exposure to gadolinium or iodine based contrast media for 96 hours prior to sample collection. Do not use disinfectants containing iodine, such as Betadine®, during venipuncture.<br>Promptly centrifuge and separate Serum or Plasma into a deionized water rinsed plastic screw capped vial using approved guidelines. |
| Rejection Criteria: | Gray top tube (Sodium Fluoride / Potassium Oxalate). Lavender top tube (EDTA). Polymer gel separation tube (SST or PST). |
| Stability: | Room Temperature: 30 day(s)<br>Refrigerated: 30 day(s)<br>Frozen (-20 °C): 12 month(s) |
| Scope of Analysis: Method (CPT Code) | ICP-MS (82542): Bromine - Total |

# Test Updates

## Test Changes

| Compound Name | Units | Reference Comment |
|---|---|---|
| Bromine - Total | mg/L | The population reference interval derived from NMS Labs data (n=129) is usually between 0.9 and 7.3 mg/L (2.5th - 97.5th percentiles) Background concentrations are diet dependent. Workers exposed to methyl bromide with blood bromide concentrations greater than 12 mg/L have shown 3.5 times higher risk of electroencephalogram disturbances than compared to those with normal levels. The ratio of blood to plasma concentrations is 0.7 - 0.8. |

### 2970U Methyl Bromide as Metabolite, Urine

Summary of Changes:
Specimen Requirements were changed.
Specimen Requirements (Specimen Container) were changed.
Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.
Stability was changed.
Scope of Analysis was changed.
Bromine - Total was added.
Methods/CPT Codes were changed [ICP-MS (82542)]
Bromide was removed.

Specimen Requirements: 2 mL Urine
Transport Temperature: Refrigerated
Specimen Container: Plastic container (Trace metal-free rinsed with deionized water), Plastic container (preservative-free)
Light Protection: Not Required
Special Handling: Avoid exposure to gadolinium or iodine based contrast media for 96 hours prior to sample collection.
Rejection Criteria: Gray top tube (Sodium Fluoride / Potassium Oxalate). Lavender top tube (EDTA).
Stability: Room Temperature: 30 day(s)
Refrigerated: 30 day(s)
Frozen (-20 °C): 12 month(s)
Scope of Analysis: ICP-MS (82542): Bromine - Total
Method (CPT Code)

| Compound Name | Units | Reference Comment |
|---|---|---|
| Bromine - Total | mg/L | The population reference interval derived from NMS Labs data (n=126) is usually between <0.5 and 6.2 mg/L (2.5th - 97.5th percentiles). Background concentrations are diet dependent. |

### 3250U Oxalate, Urine

Effective Date:

Monday, April 30, 2018

# Test Updates

## Test Changes

Summary of Changes: Reference Comment was changed.

Scope of Analysis: Method (CPT Code) EZA (83945): Oxalate

| Compound Name | Units | Reference Comment |
|---|---|---|
| Oxalate | mcmol/L | Usually less than 500 mcmol/L.<br>Known interferences: Ascorbic acid at very high concentration (exceeding 16 mcmol/mL urine) can interfere. It is recommended that patients refrain from taking excessive amounts of vitamin C or vitamin C rich food for at least 48 hours prior to collection. |

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