

# Product Specification

## Multielement ICP Standard, 7 elements @ 1,000 ppm in 5% HNO<sub>3</sub>

**Lot Number:** SAMPLE**Product Number:** RPMX014N**Manufacture Date:** N/A**Expiration Date:** N/A

This is a multielement solution that was prepared gravimetrically to contain the elements and concentrations stated below. The uncertainty associated with the certified values is  $\pm 0.5\%$  relative. The concentrations are confirmed by ICP or ICP-MS.

**Matrix:** 5% Nitric Acid

| Name              | CAS#      | Grade           |
|-------------------|-----------|-----------------|
| Water             | 7732-18-5 | ACS/ASTM/USP/EP |
| Nitric Acid       | 7697-37-2 | Trace Metals    |
| Hydrofluoric Acid | 7664-39-3 | Trace Metals    |

| Test       | Specification    | Result |
|------------|------------------|--------|
| Appearance | Dark blue liquid | N/A    |

| Analyte        | Analysis (ppm) | Solute                          | CAS#       | Grade       | NIST SRM# |
|----------------|----------------|---------------------------------|------------|-------------|-----------|
| Chromium (Cr)  | 900-1100 ppm   | Chromium Nitrate<br>Nonahydrate | 7789-02-8  | High Purity | 3112      |
| Barium (Ba)    | 900-1100 ppm   | Barium Nitrate                  | 10022-31-8 | High Purity | 3104      |
| Cadmium (Cd)   | 900-1100 ppm   | Cadmium                         | 7440-43-9  | High Purity | 3108      |
| Beryllium (Be) | 900-1100 ppm   | Beryllium                       | 7440-41-7  | High Purity | 3105      |
| Arsenic (As)   | 900-1100 ppm   | Arsenic                         | 7440-38-2  | High Purity | 3103      |
| Thallium (Tl)  | 900-1100 ppm   | Thallium                        | 7440-28-0  | High Purity | 3158      |
| Lead (Pb)      | 900-1100 ppm   | Lead                            | 7439-92-1  | High Purity | 3128      |

This standard is guaranteed to be stable and accurate provided the product is kept tightly capped and stored under normal laboratory conditions. Balances are calibrated using NIST traceable weights whose verification of maintenance and recalibration is documented per in-house Standard Operating Procedures. Class A glassware is also calibrated and routinely rechecked per in-house Standard Operating Procedures. Trace metal analyzed acids and Trace Metals Analyzed Water are used in the manufacture of this product. Triple cleaned containers are used in the manufacture of this product.

| Part Number   | Size / Package Type | Shelf Life (Unopened Container) |
|---------------|---------------------|---------------------------------|
| RPMX014N-500N | 500 mL natural poly | 12 months                       |

**Recommended Storage:** 15°C - 30°C (59°F - 86°F)

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