125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

501603
7950

AccuTrace™ Reference Standard

Catalog No: ICP-50N-5
Description: Scandium ICP Standard
Element: Scandium (Sc)
SRM: 3148a
Lot: 224025056
Matrix: 2-5% Nitric acid
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Feb 14, 2024
Expiration: Feb 14, 2029
Density: 1.015 g/mL
Sample Size: 500 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER
AR-1463

ilac-MRA

Certified Concentration: 1000 µg/mL

Trace Elements in µg/mL

Ag	N/A	**Ce**	nd<0.2	**Gd**	nd<0.02	**Lu**	nd<0.02	**Pb**	N/A	**Sc**	*	**Ti**	N/A
Al	nd<0.02	**Co**	nd<0.02	**Ge**	N/A	**Mg**	nd<0.02	**Pd**	nd<0.2	**Se**	N/A	**Tl**	nd<0.2
As	nd<0.2	**Cr**	nd<0.02	**Hf**	**0.04**	**Mn**	nd<0.02	**Pr**	nd<0.2	**Si**	N/A	**Tm**	nd<0.02
Au	nd<0.02	**Cs**	N/A	**Hg**	N/A	**Mo**	nd<0.02	**Pt**	nd<0.2	**Sm**	nd<0.2	**U**	N/A
B	N/A	**Cu**	N/A	**Ho**	nd<0.02	**Na**	N/A	**Rb**	N/A	**Sn**	nd<0.02	**V**	nd<0.02
Ba	nd<0.02	**Dy**	nd<0.02	**In**	N/A	**Nb**	nd<0.2	**Re**	nd<0.2	**Sr**	nd<0.02	**W**	nd<0.2
Be	nd<0.02	**Er**	N/A	**Ir**	nd<0.2	**Nd**	nd<0.02	**Rh**	N/A	**Ta**	nd<0.2	**Y**	nd<0.02
Bi	nd<0.2	**Eu**	nd<0.02	**K**	nd<0.2	**Ni**	nd<0.02	**Ru**	nd<0.02	**Tb**	N/A	**Yb**	nd<0.02
Ca	**0.05**	**Fe**	nd<0.02	**La**	nd<0.02	**Os**	N/A	**S**	N/A	**Te**	N/A	**Zn**	nd<0.02
Cd	nd<0.02	**Ga**	nd<0.02	**Li**	nd<0.02	**P**	N/A	**Sb**	nd<0.2	**Th**	N/A	**Zr**	**0.08**

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

This solution was assayed titrimetrically, using EDTA which was standardized against NIST SRM #915a (calcium carbonate).

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

The gravimetric uncertainty for this product is ±0.24%. The CRM uncertainty is ±2.4%.

In order to verify the concentration(s), the final solution was checked by plasma emission spectroscopy (ICP) against material traceable to the above listed NIST SRM(s).

We use the highest purity raw materials available to minimize impurity levels in the final solution. Typically 99.999%+ pure starting materials are used as well as high purity acids and ASTM Type I 18 megohm deionized water.

All trace level elemental impuritles were determined via plasma emission spectroscopy on the concentrate.

All weights are traceable through NIST, Test No. 684/291344-18 & 684/292805-19

All glassware used in preparation is Class A.

All bottles are acid leached and triple rinsed with deionized water prior to use.

Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware. Keep bottle tightly capped.

Certified By: Meigan O'Leary
Meigan O'Leary, Inorganic QC Manager

For use in routine laboratory analysis.