

# Certificate of Analysis

## Reference Material & Standard

|                      |                                                                                       |                          |                                           |
|----------------------|---------------------------------------------------------------------------------------|--------------------------|-------------------------------------------|
| <b>Product Name:</b> | Metal Elements Mix 16 (Sc, Y, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu) | <b>Catalogue Number:</b> | LINS001305                                |
| <b>Appearance:</b>   | Colourless Liquid                                                                     | <b>Lot Number:</b>       | 0523-RD-0029                              |
| <b>Solvent:</b>      | 5%Hydrochloric & 5%Nitric Acid                                                        | <b>Storage:</b>          | 2°C ~ 8°C Protected from light and Sealed |
| <b>Expiry Date:</b>  | Jan 04, 2024                                                                          |                          |                                           |

**Chemical Structure:**  
N/A

| NO. | Component                                                                             | CAS No. | Certified Concentration Value (µg/mL) | Uncertainty (%) |
|-----|---------------------------------------------------------------------------------------|---------|---------------------------------------|-----------------|
| 1   | Metal Elements Mix 16 (Sc, Y, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu) | N/A     | 1000.5                                | 1               |

## Comment:

The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

CATO Research Chemicals Inc.

## Signature:

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Approved by General Manager:

David

Date: Jan 05, 2022

Date: May 25, 2022

Date: May 25, 2022

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