

NIST HIGH-PERFORMANCE ICP-OES METHODOLOGY



Delivering the accuracy you need to be confident in your results

The Industrial brand is synonymous with unsurpassed quality, and we maintain a vigorous focus on delivering products with the highest level of accuracy to meet your needs.

As part of our long-term commitment to continuous improvement, the Industrial team worked with NIST* on original research aimed at identifying a more accurate instrument-based technique for determination of metals.

The target was the development of a methodology to certify direct traceability of assay and associated uncertainty to NIST standard reference materials.

The result?

The NIST High-Performance ICP-OES Methodology

*The National Institute of Standards and Technology

The NIST High-Performance ICP-OES Methodology is the foundation for our A+ Single Element™ Certified Reference Standards

- 8 independent dilutions of gravimetrically prepared standard at ICP-OES optimized concentration
- A method-specified internal reference spike for additional control measurements for quantitative & statistical analysis
- 800+ measurements in simultaneous comparisons (beyond ISO 17034 requirements)
- 6 hours of unbroken measurement chain
- Raw data processing using NIST's sophisticated software algorithm
- Extremely accurate analyte assignments and traceable concentration results
- Expanded uncertainty also directly traceable to NIST* SRM calibrants generated through further statistical analysis

*Where available

Industrial
VHG | ARMI | MBH
Paragon Scientific

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