

prepFAST S NANO

Automated Nanoparticle & Total Metals Detection

The **Fully Automated Solution** for Laboratory Nanoparticle Analysis



Unmatched Nanoparticle Detection in Ultrapure Chemicals



► Long-Term Stability

Eliminate nanoparticle instability and ensure sample homogeneity

Extend stability of nanoparticle calibration and reference material

User-Friendly Automation

Simplify nanoparticle preparation with autodilution and autocalibration

Reduce dangerous chemical handling by eliminating manual dilutions and calibrations

Improve total metals and nanoparticle analysis with easy-to-use software

▶ Better Results

Improve accuracy with fully-automated sample preparation process

Eliminate external contamination from sample environment

Discover what prep*FAST* S NANO can do for you

- Visit our website:
 - www.icpms.com
- Contact Us:

info@icpms.com

Automated Sample Agitation

- Homogenizes sample to improve accuracy and reproducibility of nanoparticle analysis
- Mobilizes nanoparticles back into solution

Vorso Mixing Racks

Independently mix sample prior to nanoparticle analysis



Automated Reference Material Stabilization

- Chilled environment for optimal suspension of nanoparticles
- Automatically homogenizes reference material solution before each analysis

Agitating Bottle Chiller

Stabilizes and homogenizes reference material

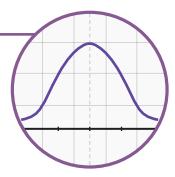


Automatic Reference Material Spiking

- Automatically adds reference material at time of analysis
- Eliminates nanoparticle deterioration in chemicals
- Simplifies reference material analysis processes

RM Spiking Apparatus

Adds reference material to determine size and concentration of unknowns



Why Automated Nanoparticle Agitation?

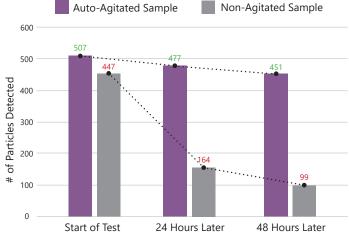


Figure 1. Detection of 197 Au in 200 ppt standard solution. Agitation performed every 30 min over a 48 hour period by prepFAST S NANO. Both bottles manually agitated at start of test.

- Automated agitation mobilizes the nanoparticles prior to analysis, providing a more homogenous sample
- Without agitation, nanoparticles will settle in the container, causing poor results
- Agitated samples show better particle recovery and overall concentration compared to non-agitated solution
- Automatic agitation does not result in loss or breakdown of particles



Key Features

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