



Technical Data Sheet

ACS Material Analytical Testing of

Inductively Coupled Plasma

Optical Emission Spectroscopy/Mass Spectrometry

(ICP-OES/MS)

Contact Information:

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| Test Service | Option #1 | Option #2 |
|------------------|---|---|
| Test Method | Inductively Coupled Plasma-Optical Emission Spectroscopy (ICP-OES) | Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) |
| Instrument Model | PerkinElmer 8300, PerkinElmer ICP 2100, ICAP7400, PerkinElmer Optima 5300 DV, OPTIMA 8000 | PerkinElmer NexION 300X, iCAP6300 |
| Test Content | PPM (ug/mL) Component Analysis | PPB (ng/mL) Component Analysis |
| Sample Type | Liquid/Powder/Bulk | Liquid/Powder/Bulk |

Detectable elements:

| | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|
| Li | Be | B | F | Na | Mg | Al | Si | P | S | K |
| Ti | V | Cr | Mn | Fe | Co | Ni | Cu | Zn | Ga | As |
| Sr | Y | Zr | Nb | Mo | Ru | Pd | Ag | Cd | Sn | Sb |
| Ba | La | W | Ir | Pt | Au | Hg | Ti | Pb | Bi | Ce |
| Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu |
| Ge | Rb | Rh | In | Te | Cs | Ca | Se | I | Pr | Sc |

Notes:

1. Sample Requirements:

- **No pretreatment needed at ACS:** Provide 10 mL clear solution in water which is neutral to acidic without F ions and without organics.
- **Needs pretreatment at ACS:**
 - For powder and bulk sample: Provide >100 mg;
 - For liquid sample: Provide 5-10 mL, please contact us if it contains organic solvents.

2. It is recommended to note the relevant information of the sample when completing the order form, we will perform the pretreatment based on given information to ensure the accuracy of the results.

3. Please download and print the order form and send it with the sample after the order is completed.

4. All samples are non-returnable and please contact us if you have special requests.

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