



## Technical Data Sheet

# ACS Material Analytical Testing of **X-ray Photoelectron Spectroscopy (XPS)** (Powder/Film/Bulk)

### **Contact Information:**

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<b>Test Service</b>	<b>X-ray Photoelectron Spectroscopy (XPS)</b>
<b>Instrument Model</b>	Thermo Kalpha, Thermo ESCALAB 250XI, Axis Ultra DLD Kratos AXIS SUPRA, PHI-5000versaprobe III
<b>Test Content</b>	Full Spectrum and Narrow Spectrum Test, Auger Spectrum, Valence Band Spectrum, Depth Profile Analysis, MAPPING, Angular Resolution
<b>Sample Type</b>	Powder/Film/Bulk

**Notes:**

- Sample Requirements:
  - Powder:** Please provide **20-30 mg**. Please use Centrifuge Tube to load your sample. If the amount is limited, please contact us.
  - Bulk / Film:** Size within **5 × 5 × 3 mm**. If the sample size is larger, please contact us for quote.
- Signals may **NOT** be detected on the elements less than 5wt%.
- For the narrow-spectrum test, the operator takes the strongest peak by default. If the strongest peak and other elements overlap, the operator will take the 2<sup>nd</sup> strongest peak.
- Special needs:** Please contact us in advance if you have following requirements, which may subject to additional fees:
  - Etch more than 5nm
  - Samples containing S, F elements
  - Any other special preparation (Glove box, scan times, etc.)
- Sample packaging: Please vacuum sealing your samples after preparation if you can, or the samples may adsorb pollutants in the air, which will affect the result of certain elements.
- All samples are non-returnable and please contact us if you have special requests.

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