



Technical Data Sheet

ACS Material Analytical Testing of **Nuclear Magnetic Resonance Spectroscopy (NMR)** (Powder/Liquid)

Contact Information:

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Revision: 051421

Test Service	Nuclear Magnetic Resonance Spectroscopy (NMR)
Instrument Model	BRUKER AVANCE 400, BRUKER AVANCEIIIHD500, Bruker Avance NEO 600
Test Content	^1H , ^{13}C , ^{19}F , ^{29}Si , ^{31}P , 2D Spectrum
Sample Type	Powder/Liquid

Notes:

1. Sample requirements:

- (1) For **powder** sample: Please provide >20 mg.
- (2) For **liquid** sample: Please provide >3 mL.
- (3) For ^{19}F , ^{29}Si , ^{31}P and 2D Spectrum test, please contact us in advance.

2. For ^1H test, Solubility > 15 mg/ml.

3. For ^{13}C test,

- (1) Small molecule sample: Solubility > 40 mg/ml.
- (2) Big molecule sample: Solubility > 100 mg/ml.
- (3) The chemical shift is 220ppm by default. Please contact us if you have other requirements.

4. Unable to measure samples containing magnetic elements (iron, cobalt, nickel, manganese, etc.)

5. For deuterated reagents samples with strong volatility and fluidity, ACS will prepare the testing samples upon receiving the package and it's not recommended to send pre-prepared samples to avoid testing errors.

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

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

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