

Absolute Quantification using qNMR

Scientific Accuracy. Certified Results.

GxP-certified, FDA approved

Why invest in qNMR?

Quantitative NMR spectroscopy (qNMR) enables the direct and traceable determination of purity and content without external calibration curves. It is a primary ratio method with high reproducibility and universal applicability—ideal for regulated environments and reference standards.

Key Advantages of qNMR:

- No Calibration Required
- Absolute Purity
- Traceable Results

We combine over 35 years of NMR experience with GMP/GLP-compliant procedures to deliver certified results for your substance.



Fig.1: NMR sample tubes



Fig.2: Laboratory workspace equipped for routine analytical and experimental procedures

Precision by science. Safety for your products.
Confidence in your data.

Workflow for Absolute Quantification – SCSSRS Principles

1. Identity Verification of analyte identity and suitability of internal standard to avoid signal overlap.
2. Sample Preparation Two independent weighings of analyte and internal standard. Ensuring complete dissolution and homogeneous solution.
3. NMR Measurement & Evaluation Optimized parameters, full relaxation, phase/baseline correction, and precise integration.
4. Certification Comprehensive documentation with results, uncertainty, identity check, and method details.

What We Deliver:

- High-precision weighing
- Optimized NMR measurement
- Expert evaluation
- Full regulatory documentation

What We Require from You:

- 20–50 mg sample (depending on the compound)
- Structure information and if possible molecular weight



Fig.1: Precision microbalance located in the dedicated balance room for accurate sample measurements



Fig.2: Automated sample jet holder of the NMR spectrometer, enabling high-throughput analysis

**Certified analyses tailored to your needs – from reference materials to complex APIs.
Contact us for a personalized consultation**