

Precise Lecithin Analysis – Fast, Reliable, and Efficient

¹H-NMR Spectroscopy for Accurate Identity and Quality Assessment

Lecithin is a versatile raw material whose composition can vary significantly depending on its source. To ensure quality, purity, and traceability, a reliable and comprehensive analytical method is essential.

¹H-NMR – The Key Technology for Maximum Precision

Fast and precise determination of lecithin composition in a single ¹H-NMR Analysis:

- ✓ **Fatty Acid Profile:** Analysis of omega-3, -6, and -9 fatty acids for source differentiation
- ✓ **Sterol Profile:** Detection of characteristic sterols to distinguish between plant-based and animal-derived sources
- ✓ **Sugar Profile:** Identification of specific sugars as unique fingerprints of different lecithin sources



Fig.1: Lecithin granules

Added Value of NMR Technology

Rapid Results – Direct measurement without complex sample preparation

Multi-Component Analysis – Simultaneous determination of multiple key compounds in a single measurement

High Precision and Reproducibility – Clear identification and prevention of adulteration

Efficient Quality Control – Minimization of production deviations and assurance of consistent product quality

Compliance with Regulatory Standards – Our Certificates can be downloaded from: <https://www.spectralservice.de/en/our-quality-standards/>

Our Service for You!

- Identity confirmation of lecithins from different sources by only one ¹H-NMR analysis
- Determination of omega fatty acid, sugar, and sterol profile
- Fast and reliable results of your lecithin profile

Let's advance your lecithin projects
together! Contact us for a consultation