



*Comparison of CPMG NMR spectra recorded on paired normal and filtered serum samples.*

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**Field strength:** 800 MHz

### Why is this your favorite spectrum?

The identified signals of *N*-alpha acetyl lysine (NAAL) represent the side chain signals from biochemically modified proteins. In order to confirm this conjecture, the 1D  $^1\text{H}$  CPMG spectra were recorded on serum samples before and after performing the ultra-filtration. The comparison clearly revealed that the assigned resonances to NAAL correspond to modified proteins.

Comments: The identified resonances of NAAL will form the basis for future metabolomics studies related to evaluating the hyperacetylation status of a patient.