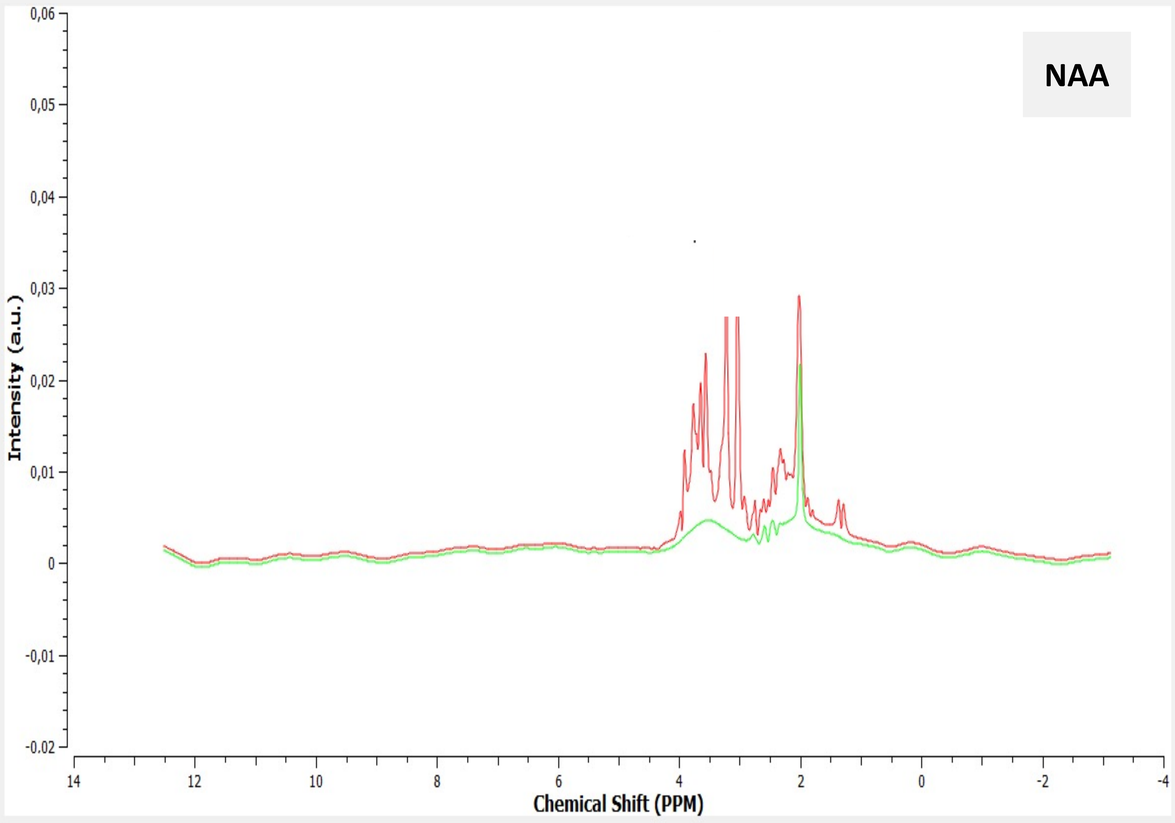
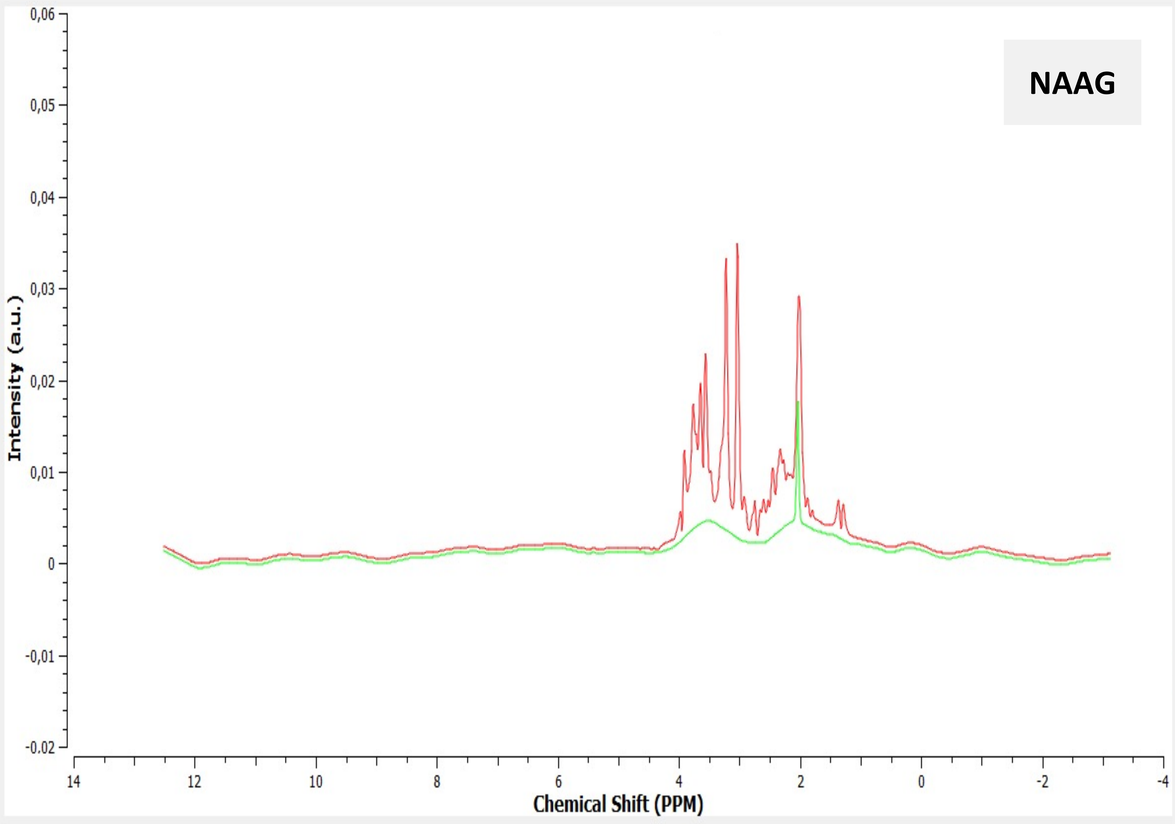
Table S1. Quantification reliability and spectral quality parameters of ALS and HC for the right and left hippocampal

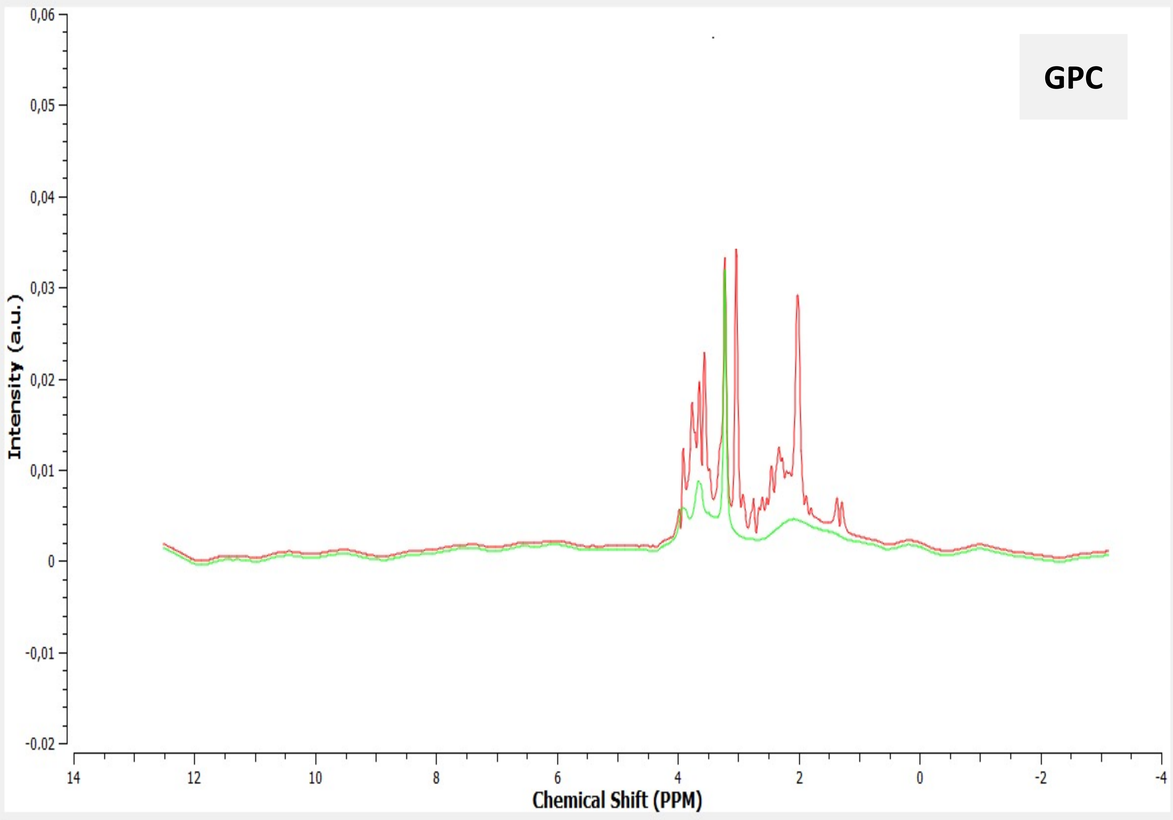
	ALS	HC	Statistics (p-value)
Right hippocampus			
FWHM (ppm)	0.075 ± 0.024	0.058 ± 0.011	0.105
SNR	8.455 ± 1.478	7.156 ± 1.030	0.261
Q	1.368 ± 0.113	1.213 ± 0.121	0.069
Left hippocampus			
FWHM (ppm)	0.065 ± 0.016	0.062 ± 0.019	0.662
SNR	8.425 ± 2.338	6.787 ± 2.126	0.093
Q	1.349 ± 0.137	1.267 ± 0.096	0.106

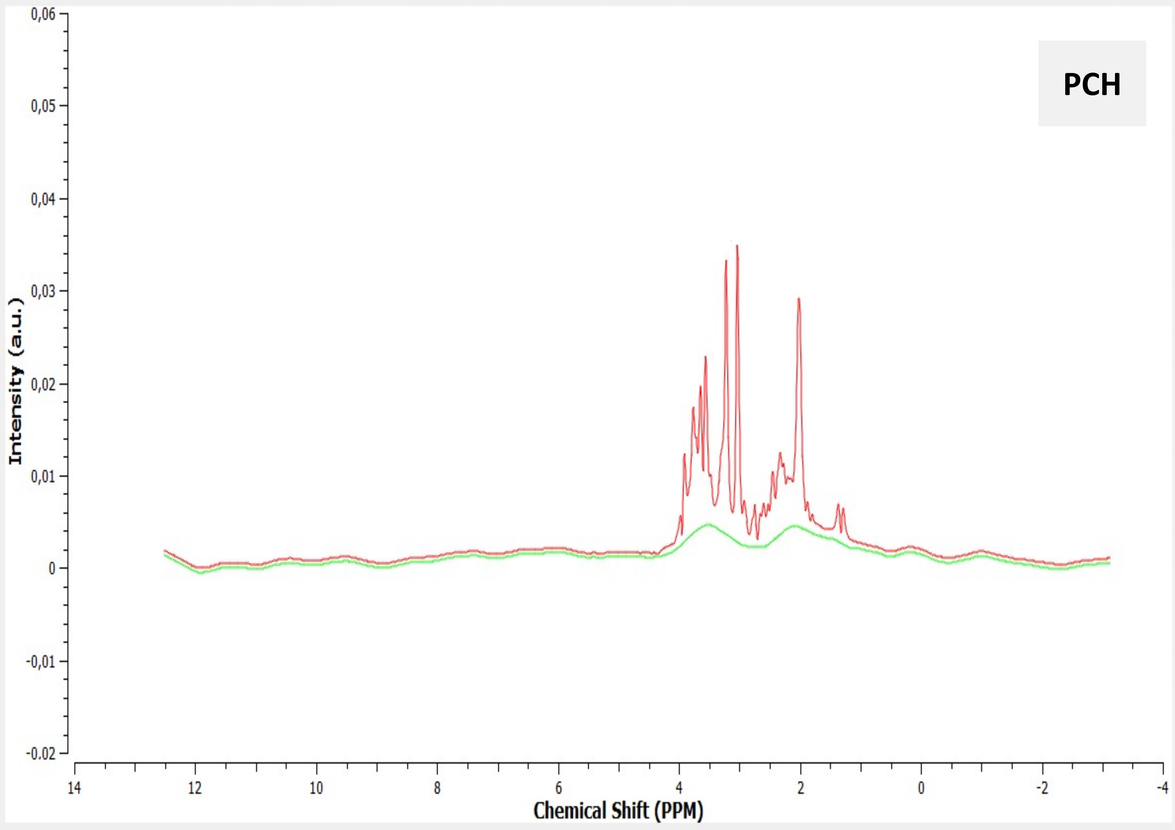
Note. ALS = amyotrophic lateral sclerosis; HC = healthy controls; FWHM = full width at half maximum; SNR = signal to noise ratio; Q = measure of fit quality; ppm = parts per million of the proton frequency

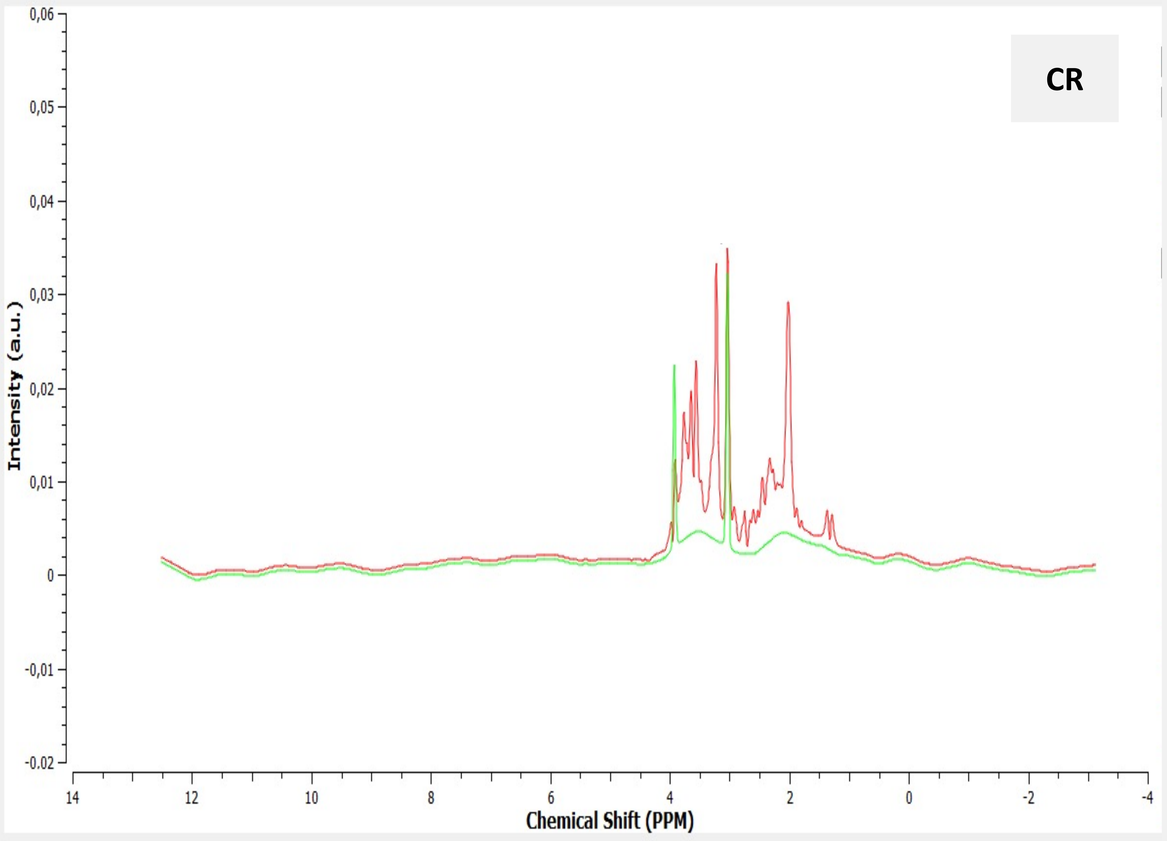
Figure S1. Individual metabolite fitting (Tarquin software, version 4.3.10) for metabolites used in the current study (tNAA, tCho, tCr, Glu, Ins). The red line represents model signal, while the green lines denote individual metabolites. tNAA = total NAA; tNAA = N-acetylaspartate (NAA) + N-acetylaspartateglutame (NAAG); tCho = total Cho; tCho = Glycerophosphocholine (GPC) + Phosphocholine (PCH); tCr = total Cr; tCr = creatine (CR) + Phospho-creatine (PCR); GLU = glutamate; INS = inositol

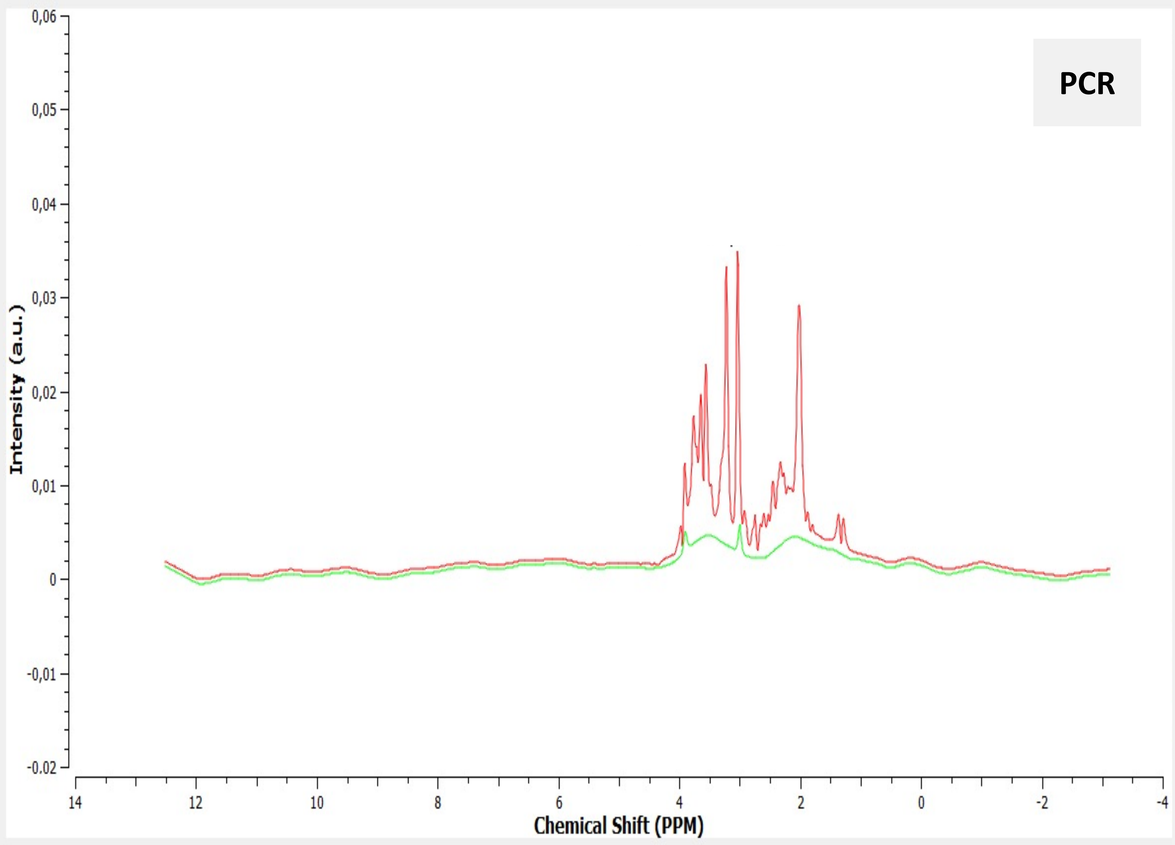

NAA
Intensity (a.u.)
Chemical Shift (PPM)

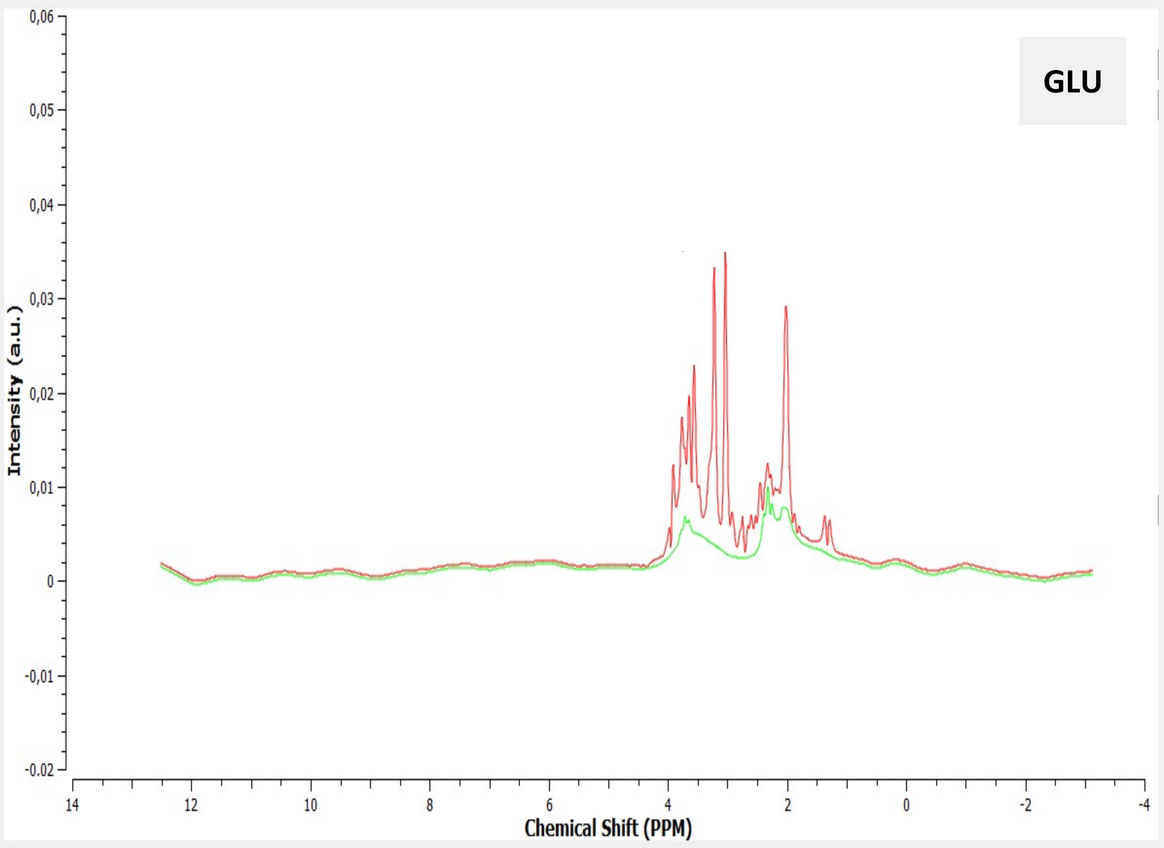

NAAG
Intensity (a.u.)
Chemical Shift (PPM)

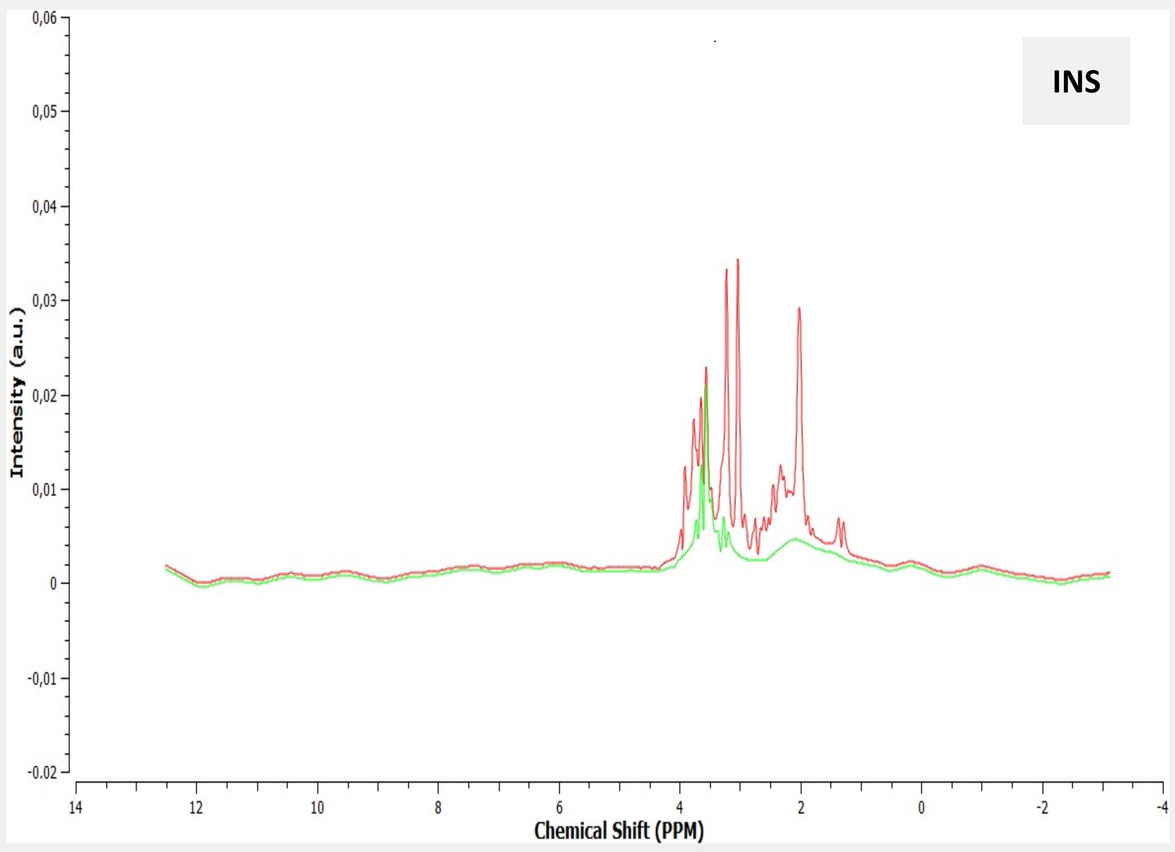

GPC
Intensity (a.u.)
Chemical Shift (PPM)


PCH
Intensity (a.u.)
Chemical Shift (PPM)


CR
Intensity (a.u.)
Chemical Shift (PPM)


PCR
Intensity (a.u.)
Chemical Shift (PPM)


GLU
Intensity (a.u.)
Chemical Shift (PPM)


INS
Intensity (a.u.)
Chemical Shift (PPM)