

Certificate of Analysis

LAB210595-1



Analysis method: quantitative ¹H-NMR spectroscopy

Instrument: Bruker Avance III HD 500 MHz with autom. sample changer & BBFOPLUS SmartProbe

Freeze-drying device Beta 1-8 LSC plus with LyoCube (Martin Christ GmbH, Osterode, D)

Internal Standard: Nicotinic acid amide (NSA; Sigma-Aldrich, Buchs (CH), Art.-Nr. 72340; RG 9)

Sample Ident.: Fresh unfiltered aloe vera juice		Batch: F216/1	
Spectral Service Code LAB210595-1		Results from: 15/07/2022	
	Content [%]	Content [mg/l]	Origin of component
Aloverose (polysaccharide)	20.4	4209.6	fresh Aloe Vera
Glucose	11.1	2291.6	fresh Aloe Vera
Malic acid	5.7	1167.8	fresh Aloe Vera
Lactic acid	Not detected		degradation (bacterial)
Citric acid	9.8	2009.2	WLM or added acidifier
WLM	Not detected		whole leaf marker (WLM)
Fructose	Detected		fresh Aloe Vera
Mg	0.2	44.5	fresh Aloe Vera
Ca	1.6	327.7	fresh Aloe Vera
Maltodextrin	Not detected		formulation aid for drying
Acetic acid	Detected		degradation (hydrolysis)
Succinic acid	Not detected		degradation (enzymatic)
Fumaric acid	Not detected		degradation (enzymatic)
Sodium benzoate	Not detected		added preservative
Potassium sorbate	Detected		added preservative
Other**	Detected		unknown
Dry matter	2.1		
Aloin***		Not determined	
Aloeemodin***		Not determined	

Eval Bruker Topspin 3.5

Current Data Parameters
NAME LAB210595
EXPNO 820
PROCNO 3

F2 - Acquisition Parameters
Date_ 20220714
Time 13:58 h
INSTRUM spect
PROBHD Z119470_0070 {
PULPROG zg30
TD 131072
SOLVENT D2O
NS 32
DS 4
SWH 12019.230 Hz
FIDRES 0.183399 Hz
AQ 5.4525952 sec
RG 78.13
DW 41.600 usec
DE 19.28 usec
TE 299.0 K
D1 5.00000000 sec
TD0 1
SFO1 500.4110033 MHz
NUC1 1H
P0 3.70 usec
P1 11.10 usec
PLW1 18.00000000 W

F2 - Processing parameters
SI 65536
SF 500.4069975 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
SINO 0
SIGF1 0 ppm
SIGF2 0 ppm

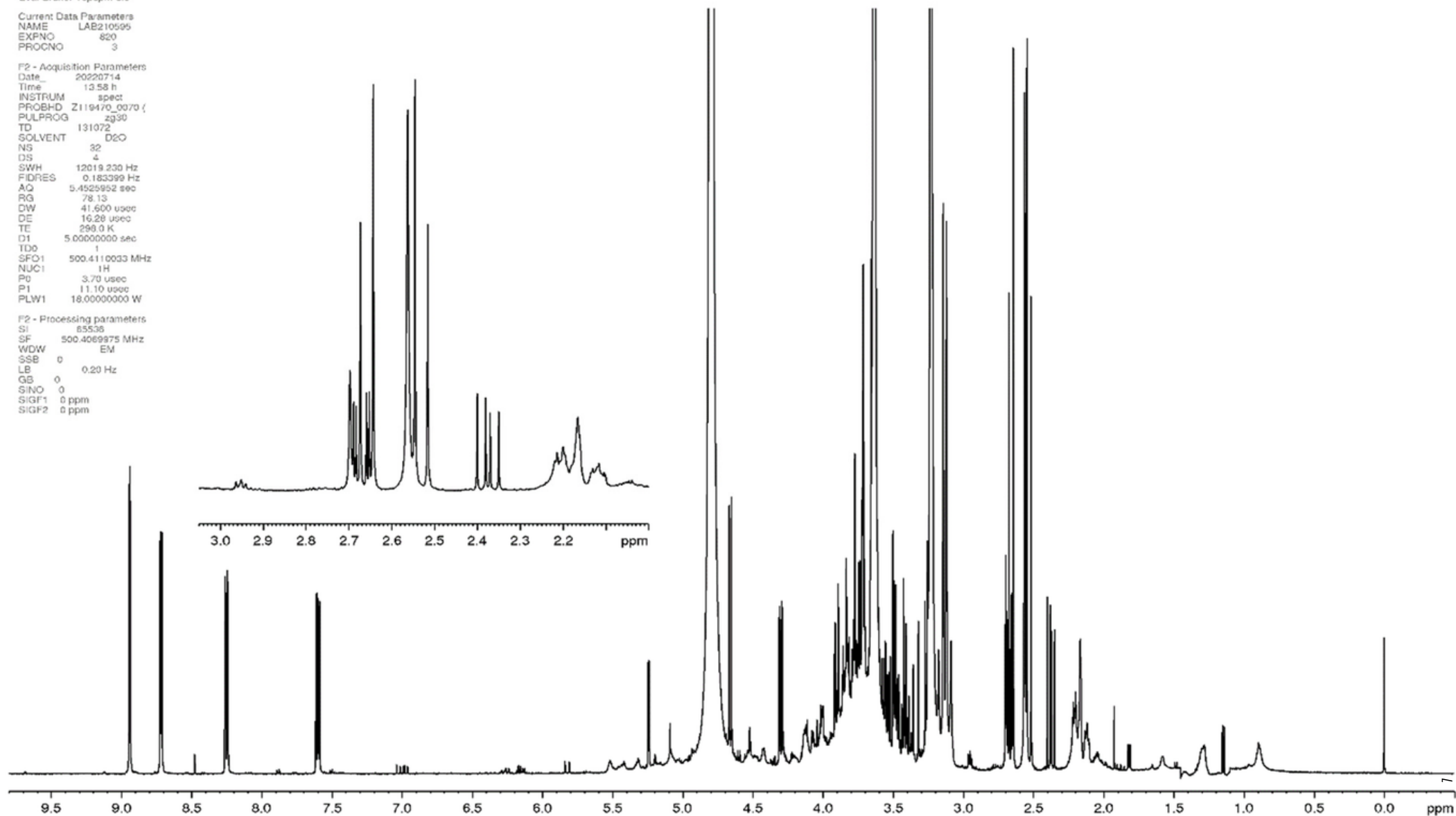


Fig. 1 ¹H-NMR spectrum of test item LAB210595-1