

Analysis Certificate**LNZ43125-1****Spectral Service**

Spectral Service AG Post box 560122 D-50986 Köln

Laboratoria Natury Sp. Zoo

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Analysis method: quantitative ¹H-NMR spectroscopy, Aloin according to SAA-MET004-03

Instrument: Bruker Avance III HD 500 MHz with autom. sample changer & BBO Prodigy cryo probe

HPLC- equipment Surveyor (ThermoFinnigan, San José, CA)

Freeze-drying device Type 318 (Christ, Aichach-Oberbernbach, D)

Internal Standard: Nicotinic acid amid (NSA; Fluka Chemie AG, Buchs (CH), Art.-Nr. 72340; RG 9)

Aloin (Roth, Karlsruhe (D); Art.-Nr. 1481-1;RG 21)

Sample Ident.:	Aloe Vera Drink Original, TOP	Batch:	0005979
Description:	cloudy, colourless liquid	Lab. No:	---
Spectral Service Code:	LNZ43125-1	Results from:	07/02/2014
	Content [%]*	Content [mg/l]*	Origin of component
Aloverose (polysaccharide)	not detected		fresh Aloe Vera
Glucose	30.3	21277.8	fresh Aloe Vera
Malic acid	3.0	2127.8	fresh Aloe Vera
Lactic acid	0.7	464.1	degradation (bacterial)
Citric acid	not detected		WLM or added acidifier
WLM	not detected		whole leaf marker (WLM)
Maltodextrin	not detected		formulation aid for drying
Acetic acid	not detected		degradation (hydrolysis)
Succinic acid	not detected		degradation (enzymatic)
Fumaric acid	not detected		degradation (enzymatic)
Sodium benzoate	not detected		added preservative
Potassium sorbate	not detected		added preservative
Other**	detected		unknown
Dry matter	7.0		pH value: not determined
Aloin***		not determined	

* The content data [%] refer to dry matter. The content data [mg/l] refer to dry weight 0.7 [%] for powders.

** Organic and inorganic compounds not to be quantified by NMR analysis.

*** Limit of quantification 0.1 ppm.

The declaration of the sample is wrong.

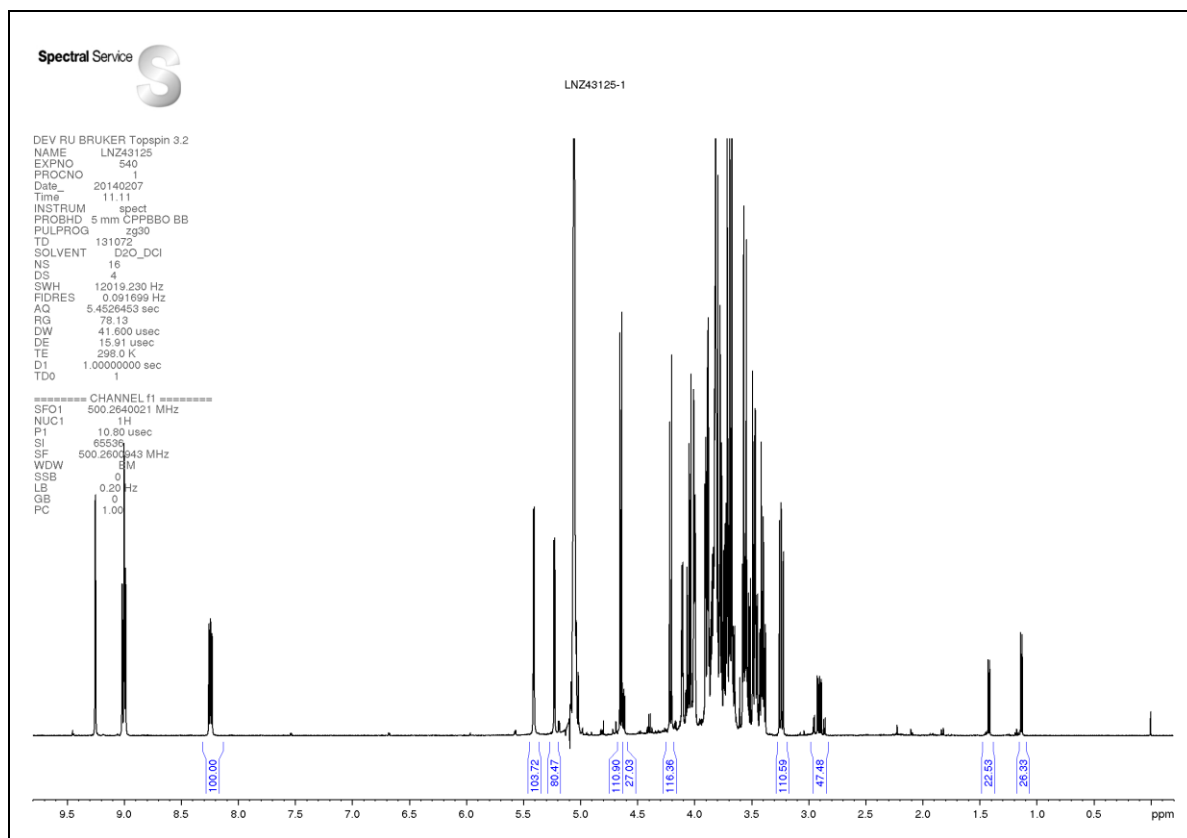


Fig. 1 ^1H -NMR spectrum of test item LNZ43125-1

Cologne, 14 February 2014

Ricarda Unger

(Chemical engineer)

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Analysis Certificate**LNZ43125-2****Spectral Service**

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Analysis method: quantitative ¹H-NMR spectroscopy, Aloin according to SAA-MET004-03

Instrument: Bruker Avance III HD 500 MHz with autom. sample changer & BBO Prodigy cryo probe

HPLC- equipment Surveyor (ThermoFinnigan, San José, CA)

Freeze-drying device Type 318 (Christ, Aichach-Oberbernbach, D)

Internal Standard: Nicotinic acid amid (NSA; Fluka Chemie AG, Buchs (CH), Art.-Nr. 72340; RG 9)

Aloin (Roth, Karlsruhe (D); Art.-Nr. 1481-1;RG 21)

Sample Ident.:	Aloe Vera Drinking Gel, LR Health & Beauty	Batch:	1240313003
Description:	cloudy, colourless liquid	Lab. No:	---
Spectral Service Code:	LNZ43125-2	Results from:	07/02/2014
	Content [%]*	Content [mg/l]*	Origin of component
Aloverose (polysaccharide)	4.4	717.1	fresh Aloe Vera
Glucose	5.1	824.2	fresh Aloe Vera
Malic acid	11.0	1777.6	fresh Aloe Vera
Lactic acid	5.8	933.3	degradation (bacterial)
Citric acid	7.5	1212.9	WLM or added acidifier
WLM	not detected		whole leaf marker (WLM)
Maltodextrin	not detected		formulation aid for drying
Acetic acid	0.5	77.1	degradation (hydrolysis)
Succinic acid	not detected		degradation (enzymatic)
Fumaric acid	not detected		degradation (enzymatic)
Sodium benzoate	not detected		added preservative
Potassium sorbate	not detected		added preservative
Other**	detected		unknown
Dry matter	1.6		pH value: not determined
Aloin***		not determined	

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*** Limit of quantification 0.1 ppm.

The sample is of Aloe Vera origin without preservative. It shows strong degradation by hydrolysis and lacto bacteria.

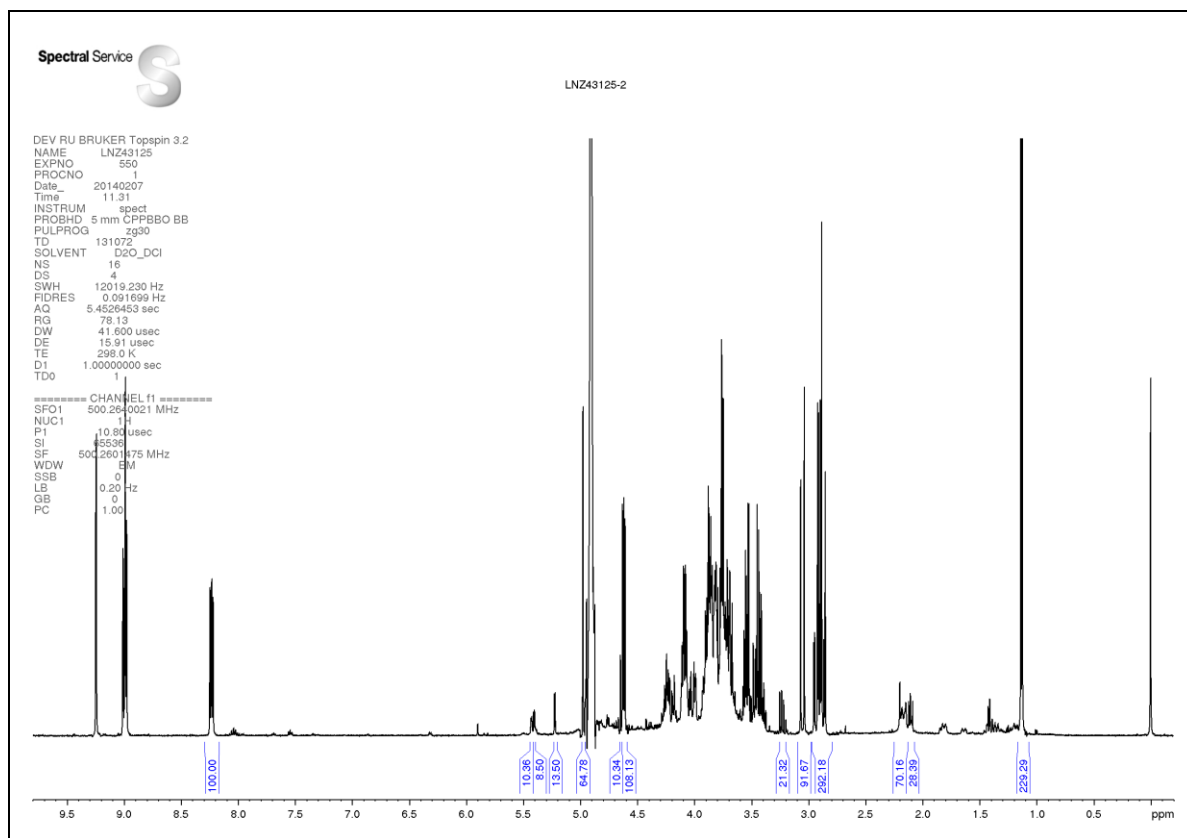


Fig. 1 ^1H -NMR spectrum of test item LNZ43125-2

Cologne, 14 February 2014

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(Chemical engineer)

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Analysis Certificate**LNZ43125-3****Spectral Service**

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Analysis method: quantitative ¹H-NMR spectroscopy, Aloin according to SAA-MET004-03

Instrument: Bruker Avance III HD 500 MHz with autom. sample changer & BBO Prodigy cryo probe

HPLC- equipment Surveyor (ThermoFinnigan, San José, CA)

Freeze-drying device Type 318 (Christ, Aichach-Oberbernbach, D)

Internal Standard: Nicotinic acid amid (NSA; Fluka Chemie AG, Buchs (CH), Art.-Nr. 72340; RG 9)

Aloin (Roth, Karlsruhe (D); Art.-Nr. 1481-1; RG 21)

Sample Ident.:	Aloe Vera King, OKF	Batch:	03.10.2013. 14
Description:	cloudy, colourless liquid	Lab. No:	---
Spectral Service Code:	LNZ43125-3	Results from:	07/02/2014
	Content [%]*	Content [mg/l]*	Origin of component
Aloverose (polysaccharide)	not detected		fresh Aloe Vera
Glucose	36.8	33429.7	fresh Aloe Vera
Malic acid	not detected		fresh Aloe Vera
Lactic acid	0.2	155.0	degradation (bacterial)
Citric acid	1.3	1164.4	WLM or added acidifier
WLM	not detected		whole leaf marker (WLM)
Maltodextrin	not detected		formulation aid for drying
Acetic acid	not detected		degradation (hydrolysis)
Succinic acid	not detected		degradation (enzymatic)
Fumaric acid	not detected		degradation (enzymatic)
Sodium benzoate	not detected		added preservative
Potassium sorbate	not detected		added preservative
Other**	detected		unknown
Dry matter	9.1		pH value: not determined
Aloin***		not determined	

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*** Limit of quantification 0.1 ppm.

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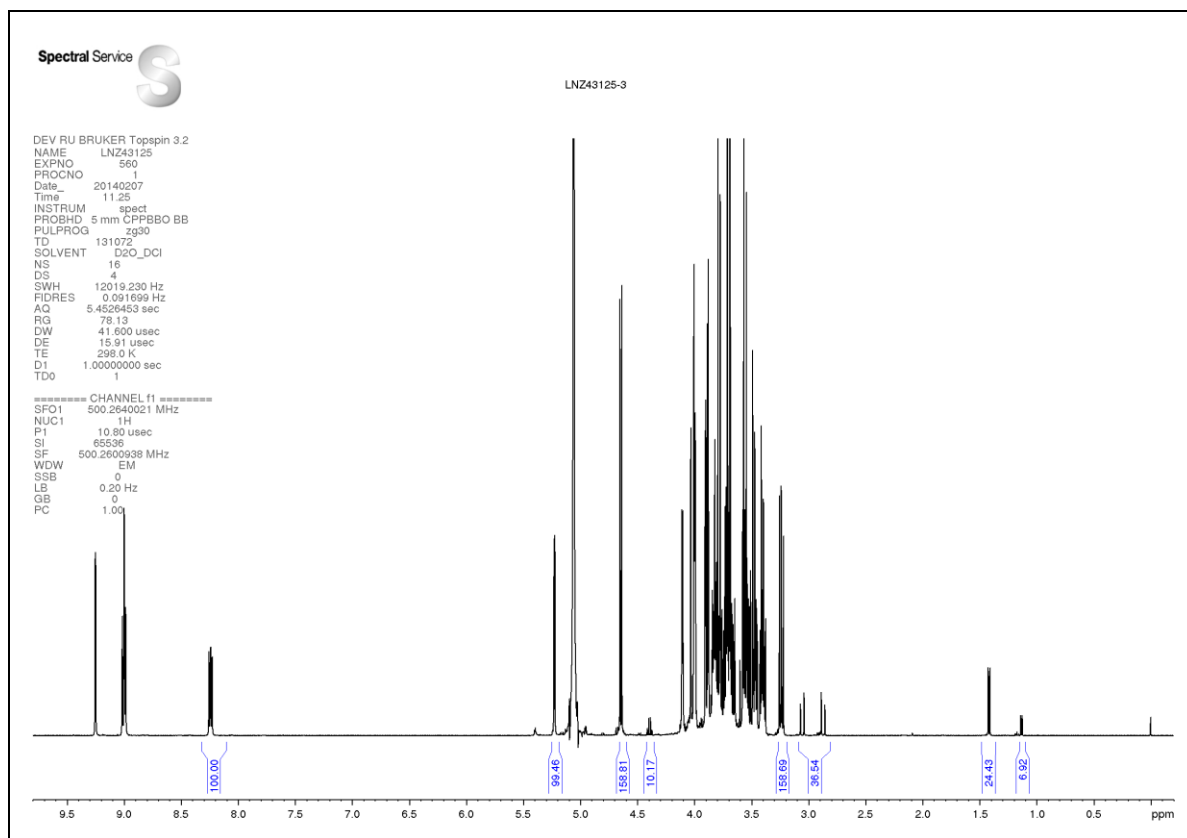


Fig. 1 ^1H -NMR spectrum of test item LNZ43125-3

Cologne, 14 February 2014

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(Chemical engineer)

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