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Test Report 2589950
Order No. 3404715
Customer No. 10043639

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Agricultural Services
SGS Germany GmbH
Rödingsmarkt 16
20459 Hamburg

Hamburg, 30.06.2015

Your order/project: .
Your purchase order date: 08.06.2015

SGS Germany

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General Information:

Sample No.:	150523655
Sample:	Syrup Probe 4
Date of receipt:	11.06.2015
Testing period (begin / end):	11.06.2015 / 30.06.2015
Quantity:	1 x ca 1 L
Packaging	Plastic bottle

Test Results:

Parameter	Method	Lab	Unit	Result	Limit of quantification	Requirements
Constituents:						
Crude protein	VDLUFA Vol. III, 4.1.1. mod., Kjeldahl(N x 6,25)	HH	%	11,4	0,1	
Crude protein	DIN EN ISO 16634-1, 2009-07, Dumas (N x 6,25)	HH	%	11,5	0,10	
Non-protein nitrogen	ASU L 07.00-41 mod, titr. (Nx6,25) ⁽¹⁾	HH	g/100 g	5,65	0,20	
Crude fat B	VDLUFA Vol. III, 5.1.1, mod. Weibull-Stoldt	HH	%	0,3	0,3	
Dry matter	UNECE Standard, annex I, edition 2011,va	HH	g/100 g	69,07	0,01	
Water	UNECE Standard, annex I, edition 2011,va	HH	g/100 g	30,93	0,01	
Crude ash	VDLUFA Bd. III, 8.2, 550°C	HH	%	10,6	0,01	
Inulin	ASU L 00.00-94 mod., enzymatical	HH	g/100ml	< 0,20	0,20	
Glucose	HPLC ⁽²⁾		g/100 g	1,00	0,2	
Fructose	HPLC ⁽²⁾		g/100 g	1,82	0,2	
Sucrose	HPLC ⁽²⁾		g/100 g	8,20	0,2	
Maltose	HPLC ⁽²⁾		g/100 g	< 0,20	0,2	
Lactose	HPLC ⁽²⁾		g/100 g	< 0,20	0,2	
Raffinose	HPLC ⁽²⁾		g/100 g	8,70	0,1	
Total reducing sugars before inversion	acc. to ASU Luff-Schoorl	HH	g/100 g	4,0	0,2	
Total reducing sugars after inversion	acc. to ASU Luff-Schoorl	HH	g/100 g	27,9	0,3	
Stachyose	HPLC ⁽²⁾		g/100 g	< 0,10	0,10	
Total sugars	calculated	HH	g/100 g	26,7	0,3	
Crude fibre	VDLUFA Bd. III, 6.1.1 mod.	HH	%	< 0,5	0,5	

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Chloride (calculated as NaCl)	VDLUFA Vol. III, 10.5.2	HH	%	0,83	0,05	
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- (1) This analysis was performed outside the DIN EN ISO/IEC 17025 akkredited area, because the method was validated only for meat and meat products.
- (2) subcontracted

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Sample 150523655	Syrup; Probe 4					
Parameter	Method	Lab	Unit	Result	Limit of quantification	Requirements

Amino acids (total):						
Aspartic acid	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	0,63	0,05	
Threonine	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	0,20	0,05	
Serine	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	0,26	0,05	
Glutamic acid	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	2,14	0,05	
Proline	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	0,70	0,05	
Glycine	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	0,45	0,05	
Alanine	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	0,26	0,05	
Valine	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	0,31	0,05	
Methionine	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	0,20	0,05	
Isoleucine	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	0,27	0,05	
Leucine	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	0,32	0,05	
Tyrosine	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	0,17	0,05	
Phenylalanine	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	0,21	0,05	
Ornithine	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	< 0,05	0,05	
gamma Aminobutyric acid	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	0,06	0,05	
Lysine	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	0,20	0,05	
Histidine	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	0,32	0,05	
Arginine	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	0,61	0,05	
Phosphoserine	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	< 0,05	0,05	
Phosphoethanolamine	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	< 0,05	0,05	
Taurine	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	< 0,05	0,05	
Hydroxyproline	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	< 0,05	0,05	
alpha Amino adipic acid	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	< 0,05	0,05	
Citrulline	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	< 0,05	0,05	
alpha Aminobutyric acid	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	< 0,05	0,05	
Cystine	SOP M 1284, AA	HH	g/100 g	< 0,05	0,05	

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Sample 150523655	Syrup; Probe 4					
Parameter	Method	Lab	Unit	Result	Limit of quantification	Requirements
	analyzer ⁽¹⁾					
Cysthathionine	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	< 0,05	0,05	
beta Alanine	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	< 0,05	0,05	
beta Aminobutyric acid	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	< 0,05	0,05	
1-Methyl histidine	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	< 0,05	0,05	
3-Methyl histidine	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	< 0,05	0,05	
Carnosine	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	< 0,05	0,05	
Hydroxylysine	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	< 0,05	0,05	
Sum amino acids (without ammonium)	calculated	HH	g/100 g	7,31	1,65	
Ammonium	SOP M 1284, AA analyzer ⁽¹⁾	HH	g/100 g	0,35	0,05	

(1) after HCl decomposition

Minerals/metals:						
Sodium	DIN EN 15510 mod., ICP/OES	HH	mg/kg	20960	5,0	
Calcium	DIN EN 15510 mod., ICP/OES	HH	mg/kg	247	5,0	
Potassium	DIN EN 15510 mod., ICP/OES	HH	mg/kg	28100	10,0	
Phosphorus	DIN EN 15510 mod., ICP/OES	HH	mg/kg	1608	5,0	
Magnesium	DIN EN 15510 mod., ICP/OES	HH	mg/kg	1430	5,0	
Iron	DIN EN 15510 mod., ICP/OES	HH	mg/kg	250	2,0	
sulfate	Gravimetry (extract with hydrochloric acid / filtration / precipitation with BaCl ₂)	TS	mg/kg	3445	500	

Special analyses:						
TVB-N	VDLUFA Vol. III, 4.8.2	HH	mg/100 g	111	0,1	