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SANOS GmbH
Birgit Acker
Dr. Zimmermann-Str. 64
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DIN EN ISO/IEC 17025:2005

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Berlin, 05 December 2019
Page 1 of 4

TEST REPORT

Sample number:	ifp19-48464-001
Sample description:	Bio Gerstengras Pulver
Date of receipt:	26 November 2019
Client:	SANOS GmbH
Sampling by:	Client
Condition of received samples:	Uncooled and without abnormalities
Packaging:	Original packaging
Batch:	65056
Nominal quantity:	each 200 g
Number of packages:	4
Begin/end of analysis:	26 November 2019 / 05 December 2019

Analysis and results:
See next page

(a) accredited; (b) validated, not accredited method; (f) outsourced, not ifp accredited
(B) location Berlin; (L) location Leipzig; (O) location Ohrdruf; (A) location Aachen

ifp Privates Institut für Produktqualität GmbH • Geschäftsführung / Management: Dr. Wolfgang Weber, Carolin Poweleit
Bankverbindung: IBAN DE21 1009 0000 7270 1740 05, BIC BEVODEBB • Handelsregister: HRB 95422, Amtsgericht Charlottenburg • USt-IdNr. DE814222515
Bank Account: IBAN DE21 1009 0000 7270 1740 05, BIC BEVODEBB • Commercial Registry: HRB 95422, Charlottenburg District Court • VAT ID No. DE814222515

Test laboratory accredited against DIN EN ISO/IEC 17025:2005. Approved according to § 44 ff. of the German Infection Protection Act. Authorised experts for official cross-samples as per § 43 of the German Foodstuffs and Animal Feed Code as well as approved as per § 14 (4) No. 3 of the German Pharmaceutical Products Act for commissioned testing of pharmaceutical samples in the Berlin headquarter. The test results relate only to the items tested. The test report may not be duplicated or published, even in extracts, without the written consent of the laboratory ifp Institut für Produktqualität GmbH.

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Pesticides:

Pesticides ASU L 00.00-115 (QuEChERS) : 2014-02 (a) mg/kg : not quantifiable
The spectrum of active substances including the quantification limits will be sent on request.

Elements / Heavy metals / Minerals:

Sodium	PV-347 ICP-MS : 2016-10 (a)	mg/kg :	147
Salt	calculated	g/100 g :	0.04
Sodium content is calculated to salt by using the formula: salt = sodium x 2.5			
Potassium	PV-347 ICP-MS : 2016-10 (a)	mg/kg :	34197
Calcium	PV-347 ICP-MS : 2016-10 (a)	mg/kg :	6062
Magnesia	PV-347 ICP-MS : 2016-10 (a)	mg/kg :	1120
Manganese	ASU L 00.00-135 (ICP-MS) : 2011-01 (a)	mg/kg :	34.6
Selenium	ASU L 00.00-135 (ICP-MS) : 2011-01 (a)	mg/kg :	0.03
Phosphorus	ASU L 00.00-135 (ICP-MS) : 2011-01 (a)	mg/kg :	3931
Iodine	DIN EN 15111 (ICP-MS) : 2007-06 (a)	mg/kg :	0.04
Iron	ASU L 00.00-135 (ICP-MS) : 2011-01 (a)	mg/kg :	400
Copper	ASU L 00.00-135 (ICP-MS) : 2011-01 (a)	mg/kg :	7.8
Zinc	ASU L 00.00-135 (ICP-MS) : 2011-01 (a)	mg/kg :	25.8

Chemical-analytical parameters:

Energy	calculated	kJ/100 g :	1125
Energy	calculated	kcal/100 g :	270
Dry matter	ASU L 06.00-3 : 2014-08 (a)	g/100 g :	95.0
Water	ASU L 06.00-3 : 2014-08 (a)	g/100 g :	5.0
Ash	PV-202-ASH : 2018-02 (a)	g/100 g :	11.1
Total protein	ASU L 06.00-7 : 2014-08 (a)	g/100 g :	23.3
The conversion factor from nitrogen to total protein is 6.25.			
Fiber	ASU L 00.00-18 : 1997-01 Ber. 2002-12 (a)	g/100 g :	40.6
Total fat	ASU L 06.00-6 : 2014-08 (a)	g/100 g :	3.2
- of which saturated fatty acid	ISO 5508/5509 (GC-FID) : 1990 (a)	g/100 g :	0.44

Sugar / Carbohydrates:

Glucose	EnzymeFast E1002 : 2013-02 (a)	g/100 g :	0.8
Fructose	EnzymeFast E1002 : 2013-02 (a)	g/100 g :	1.2
Lactose	EnzymeFast E1001 : 2013-02 (a)	g/100 g :	< 0.1
Galactose	EnzymeFast E1001 : 2013-02 (a)	g/100 g :	< 0.1
Maltose	EnzymeFast E1006 : 2013-02 (a)	g/100 g :	< 0.1
Sucrose	EnzymeFast E1002 : 2013-02 (a)	g/100 g :	1.8
Total sugar	calculated	g/100 g :	3.8
Carbohydrate	calculated	g/100 g :	17.0

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Page 3 of 4

Vitamins / Precursor substances:

Vitamin E (DL- α -Tocopherol)	DIN EN 12822 : 2014-08 (a)	mg/100 g :	6.9
Vitamin E (DL- β -Tocopherol)	DIN EN 12822 : 2014-08 (a)	mg/100 g :	< 0.2
Vitamin E (DL- γ -Tocopherol)	DIN EN 12822 : 2014-08 (a)	mg/100 g :	1.0
Vitamin E (DL- δ -Tocopherol)	DIN EN 12822 : 2014-08 (a)	mg/100 g :	< 0.2
Vitamin E, active (<i>natural source</i>)	DIN EN 12822 : 2014-08 (a)	mg/100 g :	7.2
Vitamin E, active (<i>artificial source</i>)	DIN EN 12822 : 2014-08 (a)	mg/100 g :	5.3
Vitamin D ₂ (Ergocalciferol)	DIN EN 12821 : 2009-08 (a)	μ g/100 g :	< 0.3
Vitamin D ₃ (Cholecalciferol)	DIN EN 12821 : 2009-08 (a)	μ g/100 g :	< 0.3
Vitamin K ₁ (Phylloquinone)	DIN EN 14148 : 2003-10 (a)	μ g/100 g :	1109
Vitamin K ₂ (Menaquinone)	DIN EN 14148 : 2003-10 (a)	μ g/100 g :	18.3
Vitamin A (Retinol)	DIN EN 12823-1 : 2014-08 (a)	μ g/100 g :	63.2
Vitamin A, active	DIN EN 12823-1 : 2014-08 (a)	μ g/100 g :	1930
Vitamin A (β -Carotene)	DIN EN 12823-2 : 2007-07 (a)	μ g/100 g :	11180
Vitamin C (L-Ascorbic acid)	DIN EN 14130 : 2003 (a)	mg/100 g :	18.8
Vitamin B ₁ (Thiamine)	VitaFast® ifp P1006 : 2011-06 (a)	mg/100 g :	0.43
Vitamin B ₂ (Riboflavin)	VitaFast® ifp P1007 AOAC Certificate No.100902 : 2011-06 (a)	mg/100 g :	1.5
Vitamin B ₆ (Pyridoxine)	VitaFast® ifp P1008 : 2011-06 (a)	mg/100 g :	0.51
Niacin (Nicotinic acid)	VitaFast® ifp P1004 : 2011-06 (a)	mg/100 g :	5.7
Pantothenic acid	VitaFast® ifp AOAC Certificate No.100904 : 2011-06 (a)	mg/100 g :	1.8
Folic acid	VitaFast® ifp AOAC Certificate No.100903 : 2011-06 (a)	μ g/100 g :	576
Biotin	VitaFast® ifp AOAC Certificate No.101001 : 2011-06 (a)	μ g/100 g :	20.4
Vitamin B ₁₂ (Cyanocobalamin)	VitaFast® ifp AOAC Certificate No.101002 : 2011-06 (a)	μ g/100 g :	1.2

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Mandatory nutrition declaration according to Regulation (EU) No 1169/2011

	per 100 g
Energy ¹	1125/270 kJ/kcal
Fat	3.2 g
of which saturates	0.4 g
Carbohydrate ²	17 g
of which sugars ³	3.8 g
Protein	23 g
Salt ⁴	0.04 g

¹Energy value is calculated using the conversion factors listed in Annex XIV of Regulation (EU) No 1169/2011.

²The amount of carbohydrates is calculated by the difference of 100 and water, protein, fat, ash, fibre and if required organic acids. (Souci, S.W., Fachmann, W. und H., Kraut.Food composition and nutrition tables. Stuttgart: Taylor & Francis, A CRC Press Book, MedPharm Scientific Publishers, 2008).

³Sum of fructose, glucose, sucrose, lactose, maltose and galactose.

⁴Sodium content is calculated to salt by using the formula: salt = sodium x 2.5. (Annex I of Regulation (EU) No 1169/2011)

The nutrient values have been rounded according to the "Guidance to Regulation (EU) No 1169/2011 with regard to the setting of tolerances for nutrient values declared on a label".

This document was proved by Florian Jünemann, issued electronically and is therefore valid without signature.

Florian Jünemann
Food Chemist
Account Management