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DIN EN ISO/IEC 17025:2018

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Berlin, 17 December 2021
Page 1 of 4

TEST REPORT

Sample number:	ifp21-55462-001
Sample description:	Organic Spelt Grass Powder
Date of receipt:	29 November 2021
Client:	SANOS GmbH
Sampling by:	Client
Condition of received samples:	Uncooled and without abnormalities
Packaging:	Closed plastic jar
BBD:	31.12.2024
Batch:	91785
Net quantity:	approx. 320 g each
Number of packages:	2
Begin/end of analysis:	29 November 2021 / 17 December 2021

Analysis and results:
See next page

(a) accredited; (b) validated, non-accredited method; (f) external contract outside ifp accreditation
< = below limit of quantification/ reporting limit

(B) Berlin; (O) Ohrdruf; [Decision rule in the sense of DIN EN ISO/IEC 17025:2018-03](#)

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 17025:2018. 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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 Sample description: Organic Spelt Grass Powder

Chemical-analytical parameters:

Energy	calculated	kJ/100 g :	1038
Energy	calculated	kcal/100 g :	252
Dry matter	ASU L 06.00-3 : 2014-08 (a)	g/100 g :	96.9
Water	ASU L 06.00-3 : 2014-08 (a)	g/100 g :	3.1
Ash	ifp 001304 (Gravimetrie) : 2019-07 (a)	g/100 g :	5.3
Total protein	ASU L 06.00-7 : 2014-08 (a)	g/100 g :	12.6
The conversion factor from nitrogen to total protein is 6.25.			
Fibre	ASU L 00.00-18 : 1997-01 Ber. 2002-12 (a)	g/100 g :	60.8
Total fat	ASU L 06.00-6 : 2014-08 (a)	g/100 g :	1.4
- of which saturated fatty acid	ifp 000443 (GC-FID) : 2021-07 (a)	g/100 g :	0.20

Sugar / Carbohydrates:

Glucose	EnzymeFast E1002 : 2013-02 (a)	g/100 g :	2.6
Fructose	EnzymeFast E1002 : 2013-02 (a)	g/100 g :	1.3
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 :	4.3
Total sugar	calculated	g/100 g :	8.2
Carbohydrate	calculated	g/100 g :	16.8

Elements / Heavy metals / Minerals:

Sodium	ifp 000807 (ICP-MS) : 2021-03 (a)	mg/kg :	< 22
Salt	calculated	g/100 g :	< 0.01
Sodium content is calculated to salt by using the formula: salt = sodium x 2.5			
Potassium	ifp 000807 (ICP-MS) : 2021-03 (a)	mg/kg :	14384
Calcium	ifp 000807 (ICP-MS) : 2021-03 (a)	mg/kg :	2336
Magnesia	ifp 000807 (ICP-MS) : 2021-03 (a)	mg/kg :	908
Manganese	ASU L 00.00-135 (ICP-MS) : 2011-01 (a)	mg/kg :	18.1
Selenium	ASU L 00.00-135 (ICP-MS) : 2011-01 (a)	mg/kg :	0.06
Phosphorus	ASU L 00.00-135 (ICP-MS) : 2011-01 (a)	mg/kg :	2026
Iodine	DIN EN 15111 (ICP-MS) : 2007-06 (a)	mg/kg :	< 0.02
Iron	ASU L 00.00-135 (ICP-MS) : 2011-01 (a)	mg/kg :	154
Copper	ASU L 00.00-135 (ICP-MS) : 2011-01 (a)	mg/kg :	7.2
Zinc	ASU L 00.00-135 (ICP-MS) : 2011-01 (a)	mg/kg :	19.3

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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 :	2.5
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 :	< 0.2
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 :	2.5
Calculated as α -tocopherol equivalents (α -TE); 1 mg α -TE = 1.00 mg α -tocopherol = 2.00 mg β -tocopherol = 4.00 mg γ -tocopherol = 100 mg δ -tocopherol			
Vitamin E, active (<i>artificial source</i>)	DIN EN 12822 : 2014-08 (a)	mg/100 g :	1.9
Calculated as α -tocopherol equivalents (α -TE); 1 mg α -TE = 1.35 mg DL- α -tocopherol			
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 :	1018
Vitamin K ₂ (Menaquinone)	DIN EN 14148 : 2003-10 (a)	μ g/100 g :	< 2.0
Vitamin A (Retinol)	DIN EN 12823-1 : 2014-08 (a)	μ g/100 g :	< 4.0
Vitamin A, active	DIN EN 12823-1 : 2014-08 (a)	μ g/100 g :	645
Vitamin A (β -Carotene)	DIN EN 12823-2 : 2007-07 (a)	μ g/100 g :	3860
Vitamin C (L-Ascorbic acid)	DIN EN 14130 : 2003 (a)	mg/100 g :	15.2
Vitamin B ₁ (Thiamine)	VitaFast® ifp P1006 : 2016-10 (a)	mg/100 g :	0.26
Vitamin B ₂ (Riboflavin)	VitaFast® ifp P1007 AOAC Certificate No.100902 : 2016-10 (a)	mg/100 g :	1.1
Vitamin B ₆ (Pyridoxine)	VitaFast® ifp P1008 : 2016-10 (a)	mg/100 g :	0.44
Folic acid	VitaFast® ifp AOAC Certificate No.100903 : 2016-10 (a)	μ g/100 g :	558
Biotin	VitaFast® ifp AOAC Certificate No.101001 : 2016-10 (a)	μ g/100 g :	11.2
Vitamin B ₁₂ (Cyanocobalamin)	VitaFast® ifp AOAC Certificate No.101002 : 2017-02 (a)	μ g/100 g :	0.45

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Page 4 of 4

Nutrition declaration according to Regulation (EU) No 1169/2011

	per 100 g
Energy ¹	1038/252 kJ/kcal
Fat	1.4 g
of which saturates	0.2 g
Carbohydrate ²	17 g
of which sugars ³	8.2 g
Fibre	61 g
Protein	13 g
Salt ⁴	< 0.01 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 Susanne Bose, issued electronically and is therefore valid without signature.

Susanne Bose
Food Chemist
Account Management