

SUNFLOWER PROTEIN CONCENTRATE 80 %

Powder form, green color

Analyses done by SGS France and Intertek Germany



ANALYSIS REQUESTED: Pesticides by GC and LC-MS (105111)

Parameter	Result	Unit	Method
Pesticides	n.d.	mg/kg	(a) ¹
n.d. - not detected < limits of quantification List of analytes and limits of quantification: see pdf-file attached to the electronically submitted analysis report			
(a) : accredited method. (na) : not accredited method. (1) ASU § 64 LFGB L 00.00-115:2018-10 (DIN EN 15662) This document may only be reproduced in full. The results given herein apply to the submitted sample only.			

ANALYSIS REQUESTED: Chlorogenic acids by HPLC (106779)

Parameter	Result	Unit	Method
3-CQA	0.37	g/100 g TM	DIN 10767 (S) (a) ¹
5-CQA	0.34	g/100 g TM	DIN 10767 (S) (a) ¹
4-CQA	0.57	g/100 g TM	DIN 10767 (S) (a) ¹
3-FQA	n.d.	g/100 g TM	DIN 10767 (S) (a) ¹
5-FQA	n.d.	g/100 g TM	DIN 10767 (S) (a) ¹
4-FQA	n.d.	g/100 g TM	DIN 10767 (S) (a) ¹
3.4-diCQA	0.05	g/100 g TM	DIN 10767 (S) (a) ¹
3.5-diCQA	0.02	g/100 g TM	DIN 10767 (S) (a) ¹
4.5-diCQA	0.03	g/100 g TM	DIN 10767 (S) (a) ¹
Sum chlorogenic acids	1.38	g/100 g TM	DIN 10767 (S) (a) ¹
n. d. = not detected < limit of quantification: 0.01 g/100 g TM; TM = dry matter All chlorogenic acids are calculated as 5-CQA.			
(S) : Placed with subcontractor. (a) : accredited method. (na) : not accredited method. (1) 2015-08 This document may only be reproduced in full. The results given herein apply to the submitted sample only.			

ANALYSIS REQUESTED: Elements by ICP-MS (101491)

Parameter	Result	Unit	Method
Sodium (Na)	13995.0	mg/kg	ICP-OES (a) ¹
n.d. - not detectable < limit of quantification (LOQ): Ag, As, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Te: 0.01 mg/kg; Li: 0.02 mg/kg; Ba, Fe, Mg, Ti, V, Zn: 0.10 mg/kg; Al, Ca, K, Na, P: 1.0 mg/kg			
(a) : accredited method. (na) : not accredited method. (1) analysis partly done at location Linden This document may only be reproduced in full. The results given herein apply to the submitted sample only.			

Parameters	Units	Results
Total aminoacids with tryptophan (1)		
(ASU L 49.07-2 :1986-11/Food SOP 804 : 2017-03)		
Alanin	g/100 g	3,22
Arginin	g/100 g	6,13
Aspartic acid	g/100 g	6,75
sum aspartic and asparagin		
Glutamic Acid	g/100 g	14,70
sum glutamic acid and glutamin		
Glycin	g/100 g	3,84
Histidin	g/100 g	2,07
Hydroxyproline	g/100 g	3,25
Isoleucin	g/100 g	3,10
Leucin	g/100 g	4,87
Lysine	g/100 g	2,11
Phenylalanin	g/100 g	4,04
Prolin	g/100 g	3,25
Serin	g/100 g	3,12
Threonin	g/100 g	2,71
Tyrosin	g/100 g	1,81
Valin	g/100 g	3,24
Cystein + Cystin	g/100 g	0,77
Total aminoacids with tryptophan (1)		
(ASU L 49.07-2 :1986-11/Food SOP 804 : 2017-03)		
Methionin	g/100 g	1,52
Tryptophan	g/100 g	0,95
High pressure micro wave (ME224)		-
(ME224 Minéralisation)		
Metals in ICP/MS		
(ME418 ICPMS)		
Aluminium	mg/kg	29,2
Molybdene	mg/kg	2,18
Bromine	mg/kg	<50
(Calcination CI)		
Chlorine	mg/kg	8780
(Calcination CI)		
Taurine (2)	mg/100 g	<5
(HPLC)		
silicium	mg/kg	76,5
(ME449 ICPAES)		
silice (in SiO2)	mg/kg	164
(ME449 ICPAES)		
Mineralization HF		-
(ME449)		
Specific DNA detection for qualitative allergen identification (1)		
(PCR)		
Soya		Negative
LD 0.01%		
Proteins N*6.25	%	76,80
(MO75 Kjeldhal)		
Proteins N*6.25 on dry matter	%	80,27
(MO75 Kjeldhal)		
Formaldehyde	mg/kg	<2
(ME414 HPLC UV)		
Moisture	%	4,32
(Rglt.CE152/2009)		
GMO research by P35S/TNos screening by PCR (2)		
(ISO21569/21570/21571/24276)		
Analysis date		11/03/2021
Submitted sample amount		0,74 kg
Sample portion		2 x 200 mg
P35S		NEGATIF
TNos		NEGATIF
Pepsic digestibility (2)	%	96,30
(3ème directive CEE 72/199 Calcul)		