

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

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

ANALYSIS REQUESTED: Elements by ICP-MS (101491)

Parameter	Result	Unit	Method
Sodium (Na)	13995.0	mg/kg	ICP-OES (a) ¹

ANALYSIS REQUESTED: Nutritional analysis according to Regulation (EU) No 1169/2011 (106581)

Parameter	Result	Unit	Method
Energy	1620	kJ/100 g	¹
Energy	384	kcal/100 g	¹
Fat	5.8	g/100 g	ASU L 06.00-6, mod. (a) ²
of which saturates	0.7	g/100 g	PM DE01.077:2014-04 (a)
Carbohydrate	4.6	g/100 g	¹
of which sugars	1.7	g/100 g	PM DE01.275:2019-03 (a)
Fibre	5.4	g/100 g	ASU L 00.00-18, mod (a) ³

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)		