



**Commodities International
Shipping and Survey**



CISS Group PTE. LTD.

10, Anson Road, #29-05 A, International Plaza, Singapore, 079903.

e-mail: inspection@ciiss-group.com

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CERTIFICATE No.: UA01187/1

ORIGINAL

CERTIFICATE OF ANALYSIS

In pursuance of an order received from our principal, requesting us to carry out inspection we hereby confirm as follows:

Description of goods:	CRUDE SUNFLOWER SEED OIL
Vessel:	UBC AMOSOV
Quantity:	1602,120 MT
B/L No. & Date:	NO. 1 AND 2 DD 15.01.2022
Shipper:	LLC "MEISEN" Ukraine 54001, Nikolaev, Nikolskaya str., building 61/11 ON BEHALF OF TRADE AGRI EUROPE LTD LLC "MEISEN" Ukraine 54001, Nikolaev, Nikolskaya str., building 61/11 ON BEHALF OF BSS EUROPE LTD
Consignee:	TO ORDER
Notify address:	Astra Bioplant LTD, 23 Bulgaria str, 7060 Slivo Pole, Bulgaria VAT: BG117650594
Port of loading:	IZMAIL, UKRAINE
Port of discharge:	NIKOLAEV, UKRAINE
Vessel Tanks Nos.:	1P, 2S, 5P, 6S, 7P, 8S, 11P AND 12S

RESULTS OF QUALITY INSPECTION

Representative preshipment samples of the oil delivered to vessel tank № 1P, 2S, 5P, 6S, 7P, 8S, 11P AND 12S of UBC AMOSOV have been drawn and sealed conjointly with buyer's superintendent at nearest practicable point to vessels' rail, according to FOSFA CONTRACT No.53. One sample was submitted for analysis to FOSFA approved chemical laboratory. The following results of analysis have been obtained:

No	Test Description	Method	Units	LOQ*	Results
1	Capronat acid (C6:0)	DSTU ISO 5508-2001	%	0,05	ND,less than 0,05
2	Caprylat acid (C8:0)		%	0,05	ND,less than 0,05
3	Caprycat acid (C10:0)		%	0,05	ND,less than 0,05
4	Lauriat acid (C12:0)		%	0,05	ND,less than 0,05
5	Myristat acid (C14:0)		%	0,05	0,07
6	Palmitat acid (C16:0)		%	0,05	6,25
7	Palmitoleic acid (C16:1)		%	0,05	0,11
8	Margaric acid (C17:0)		%	0,05	ND,less than 0,05
9	Heptadecenoic acid (C17:1)		%	0,05	ND,less than 0,05
10	Stearat acid (C18:0)		%	0,05	3,51
11	Oleat acid (C18:1)		%	0,05	30,54





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No	Test Description	Method	Units	LOQ*	Results
12	Linoleat acid (C18:2)	DSTU ISO 5508-2001	%	0,05	58,12
13	Linolenat acid (C18:3)		%	0,05	0,05
14	Arachidate acid (C20:0)		%	0,05	0,25
15	Gadoleic acid (C20:1)		%	0,05	0,13
16	Eicosadienoic acid (C20:2)		%	0,05	ND,less than 0,05
17	Behenat acid (C22:0)		%	0,05	0,68
18	Erucate acid (C22:1)		%	0,05	ND,less than 0,05
19	Docosadienoic acid (C22:2)		%	0,05	ND,less than 0,05
20	Lignocerat acid (C24:0)		%	0,05	0,26
21	Nervonic acid (C24:1)		%	0,05	ND,less than 0,05

No	Test Description	Method	Units	Results
1	Cholesterol	ISO 12228-1:2014	%	0,10
2	Brassicasterol		%	ND,less than 0,10
3	Campesterol		%	8,49
4	Stigmasterol		%	8,55
5	Beta-sitosterol		%	55,87
6	Delta-5-avenasterol		%	4,97
7	Delta-7-stigmastenol		%	12,13
8	Delta-7-avenasterol		%	4,61
9	Others		%	5,28
10	Total sterols		mg/kg	4174,3

No	Test Description	Method	LOQ*	Units	Results
1	Benzo[a]pyrene	ISO 15753:2016	0,2	µg/kg	1,9
2	Benz(a)anthracene	ISO 15753:2016	0,2	µg/kg	2,3
3	Benz(b)fluoranthrene	ISO 15753:2016	0,3	µg/kg	2,5
4	Chrysene	ISO 15753:2016	0,2	µg/kg	3,2

No	Test Description	Method	LOQ*	Units	Results
1	Acetamidrid	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
2	Aldrin	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
3	Amitraz	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
4	Acephate	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
5	Azinphos-methyl	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
6	Acetochlor	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
7	Alachlor	EN 1528:1996	0,020	mg/kg	ND, less than 0,020





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No	Test Description	Method	LOQ*	Units	Results
8	Atrazine	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
9	Azoxystrobin	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
10	Anthraquinone	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
11	Bifenthrin	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
12	Boscalid (Nicobifen)	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
13	Biphenyl	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
14	Bromopropylate	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
15	Captafol	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
16	Carbaryl	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
17	Carbofuran	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
18	Carboxin	EN 1528:1996	0,050	mg/kg	ND, less than 0,050
19	Chlordane	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
20	Chlorothalonil	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
21	Chlorfenvinphos	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
22	Chlorpyrifos	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
23	Chlorpyrifos-methyl	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
24	Cyfluthrin	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
25	Cyhalothrin-Lambda	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
26	Cypermethrin	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
27	Cyproconazole	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
28	Cyprodinil	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
29	DDT	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
30	DDD	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
31	DDE	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
32	Dimethoate	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
33	Deltamethrin	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
34	Diazinon	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
35	Dichlorvos	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
36	Dieldrin	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
37	Difenoconazole	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
38	Disulfoton	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
39	Endosulfan	EN 1528:1996	0,050	mg/kg	ND, less than 0,050
40	Endosulfan alfa	EN 1528:1996	0,050	mg/kg	ND, less than 0,050
41	Endosulfan beta	EN 1528:1996	0,050	mg/kg	ND, less than 0,050
42	Endosulfan sulfate	EN 1528:1996	0,050	mg/kg	ND, less than 0,050
43	Endrin	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
44	Ethion	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
45	Ethoxyquin	EN 1528:1996	0,050	mg/kg	ND, less than 0,050





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46	Famaxodone	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
47	Fenitrothion	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
48	Fenthion	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
49	Fipronil	EN 1528:1996	0,005	mg/kg	ND, less than 0,005
50	Fenvalerate	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
51	Fludioxonil	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
52	Heptachlor	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
53	Heptachlor epoxide	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
54	Haloxypomethyl	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
55	Haloxypop-p-methyl	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
56	Hexachlorobenzene (HCB)	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
57	HCH alfa isomer	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
58	HCH beta isomer	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
59	HCH gamma isomer (Lindane)	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
60	Imazalil	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
61	Iprodione	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
62	Isoprothiolane	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
63	Linuron	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
64	Malathion	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
65	Metalaxyl	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
66	Methamidophos	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
67	Methidathion	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
68	Methoxychlor	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
69	Monocrotophos	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
70	Metazachlor	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
71	Mepiquat	EN 15662:2018	0,500	mg/kg	ND, less than 0,500
72	Methomyl	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
73	Naled	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
74	Nitrofen	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
75	Omethoate	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
76	Oxadixyl	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
77	Ortho-phenyl phenol	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
77	Phorate	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
79	Parathion-methyl	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
80	Pendimethalin	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
81	Permethrin	EN 1528:1996	0,050	mg/kg	ND, less than 0,050
82	Pirimiphos-methyl	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
83	Prochloraz	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
84	Procymidone	EN 1528:1996	0,020	mg/kg	ND, less than 0,020





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No	Test Description	Method	LOQ*	Units	Results
85	Propiconazole	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
86	Phosphamidone	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
87	Simazine	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
88	Tetramethrin	EN 1528:1996	0,050	mg/kg	ND, less than 0,050
89	Tebuconazole	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
90	Thiamethoxam	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
91	Trifloxystrobin	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
92	Trichlorfon	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
93	Trifluralin	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
94	Terbufos	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
95	Vinclozolin	EN 1528:1996	0,020	mg/kg	ND, less than 0,020

Remarks:

*LOQ — limit of quantification.

The oil is homogeneous, of good, sound and merchantable quality.

DATED: 19th of JANUARY, 2022

For and on behalf of CISS GROUP Ukraine LLC

Registered Superintendent and Surveyor Member of FOSFA

