



**Commodities International  
Shipping and Survey**



**CISS GROUP UKRAINE LLC**  
member of CISS GROUP Pte.Ltd. (Singapore)  
5, Odessa Blv., Ovidiopol district,  
Lymanka village, Odessa region, 65037  
Inspection@ciiss-group.com

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**CERTIFICATE No.: UA01562**

**ORIGINAL**

## **QUALITY CERTIFICATE**

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 Oil in bulk. Taric Code 15121110  
Vessel: MT ARIES  
Quantity: 1060,940 MT  
B/L No. & Date: NO. 1 DD 21.07.2023  
Shipper: LIMITED LIABILITY COMPANY "VERGUE STATE"  
Ukraine, 49107, Dnipropetrovsk region, Dnipro city,  
Gagarina avenue, building 74  
ON BEHALF OF D.A.M TRADE GROUP LLC  
Consignee: Astra Bioplant LTD,  
23 Bulgaria str,  
7060 Slivo Pole,  
Bulgaria  
Notify address: Astra Bioplant LTD,  
23 Bulgaria str,  
7060 Slivo Pole,  
Bulgaria  
Port of loading: IZMAIL, UKRAINE  
Port of discharge: Constanta, Romania  
Vessel Tanks Nos.: 1P,1S,2P,2S,3P,3S,4P,4S,5P,5S,6P,6S

## **RESULTS OF QUALITY INSPECTION**

Representative preshipment samples of the oil delivered to vessel tank 1P, 1S, 2P, 2S, 3P, 3S, 4P, 4S, 5P, 5S, 6P, 6S of MT ARIES 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:

Parameter	Method	Specification	Results
Free fatty acid content (as oleic acid)	ISO 660	basis 2% max 3,0%	1,54%
Moisture and volatile substances	ISO 662	max: 0.5%	0,23%
Foreign substances	ISO 663		
Flash point	ISO 15267	min. 121 °C	No flash at 121 °C
Phosphorus	ISO 10540-1	max: 350ppm	197,8 ppm

Parameter	Method	Result	LOQ
Total aflatoxins (B1, B2, G1, G2), ppb (µg/kg)	ISO 16050 (HPLC method)	< 1*	1 ppb







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Parameter	Method	Result	LOQ
Caproic acid C6:0, %	ISO 12966-4	< 0.05*	0.05 %
Caprylic acid C8:0, %	ISO 12966-4	< 0.05*	0.05 %
Capric acid C10:0, %	ISO 12966-4	< 0.05*	0.05 %
Lauric acid C12:0, %	ISO 12966-4	< 0.05*	0.05 %
Myristic acid, C14:0, %	ISO 12966-4	0.1	0.05 %
Palmitic acid C16:0, %	ISO 12966-4	6.1	0.05 %
Palmitoleic acid C16:1, %	ISO 12966-4	0.1	0.05 %
Heptadecanoic acid C17:0, %	ISO 12966-4	< 0.05*	0.05 %
cis-10-Heptadecenoic acid C17:1, %	ISO 12966-4	< 0.05*	0.05 %
Stearic acid C18:0, %	ISO 12966-4	2.9	0.05 %
Oleic acid C18:1n9c, %	ISO 12966-4	30.4	0.05 %
Linoleic acid C18:2n6c, %	ISO 12966-4	59.1	0.05 %
α-Linolenic acid (omega3) C18:3n3, %	ISO 12966-4	0.1	0.05 %
Arachidic acid C20:0, %	ISO 12966-4	0.2	0.05 %
cis-11-Eicosenoic acid C20:1, %	ISO 12966-4	0.1	0.05 %
cis-11,14-Eicosadienoic acid C20:2, %	ISO 12966-4	< 0.05*	0.05 %
Behenic acid C22:0, %	ISO 12966-4	0.7	0.05 %
Erucic acid C22:1n9, %	ISO 12966-4	< 0.05*	0.05 %
Lignoceric acid C24:0, %	ISO 12966-4	0.2	0.05 %
Nervonic acid C24:1, %	ISO 12966-4	< 0.05*	0.05 %

\*-No analyte at a content above the limit of Quantification was detected

LOQ (Limit of quantification) - is the lowest amount or concentration of analyte in a sample, which can be reliably quantified with an acceptable level of precision and accuracy.

**This certificate is electronically signed and stamped.**

**DATED: 25th of JULY, 2023**

**For and on behalf of CISS GROUP Ukraine LLC  
Registered Superintendent and Surveyor Member of FOSFA**

