

**REPORT OF ANALYSIS No. 85849/18/JSHR**

Client <b>DACHIM SRL</b> STR. GHEORGHE LAZĂR 11 401077 TURDA	Sample description (according to declaration of Client) <b>HEMP SEED OIL</b>  <b>Lot/batch:C 01</b> <b>Lot quantity: 250L</b> <b>Production date:19.02.2018</b> <b>Expiration date:19.08.2019</b> <b>Sample quantity:250ML</b> <b>Sample condition with no objections</b>
Sample received: <b>2018-02-27</b>	<b>Order of 2018-02-27</b> The samples were delivered by Client
Analysis completed: <b>2018-03-06</b>	
Report dated: <b>2018-03-06</b>	

Test	Method	Unit	Result
* Fatty acids profile	PN-EN ISO 12966-1:2015-01, PN-EN ISO 12966-2:2011 except p.4.3 and 4.5		
C4:0 butyric acid		g/100 g fat	< 0,1
C6:0 caproic acid		g/100 g fat	< 0,1
C8:0 caprylic acid		g/100 g fat	< 0,1
C10:0 capric acid		g/100 g fat	< 0,1
C12:0 lauric acid		g/100 g fat	< 0,1
C14:0 myristic acid		g/100 g fat	< 0,1
C15:0 pentadecanoic acid		g/100 g fat	< 0,1
C16:0 palmitic acid		g/100 g fat	7,0
C17:0 margaric acid		g/100 g fat	< 0,1
C18:0 stearic acid		g/100 g fat	3,4
C20:0 arachidic acid		g/100 g fat	1,1
C22:0 behenic acid		g/100 g fat	0,4
C24:0 lignoceric acid		g/100 g fat	0,2
C14:1myristoleic acid		g/100 g fat	< 0,1
C16:1n7 palmitoleic acid		g/100 g fat	0,1
C16:1 (sum of)		g/100 g fat	0,1
C17:1 margaroleic acid		g/100 g fat	< 0,1
C18:1n9 trans elaidic acid		g/100 g fat	< 0,1
C18:1n9 oleic acid		g/100 g fat	16,0
C18:1 (sum of)		g/100 g fat	16,9
C20:1n9 eicosenoic acid		g/100 g fat	0,4
C20:1 (sum of)		g/100 g fat	0,4
C22:1n9 erucic acid		g/100 g fat	< 0,1
C22:1 (sum of)		g/100 g fat	< 0,1
C24:1n9 nervonic acid		g/100 g fat	< 0,1
C18:2 trans (sum of)		g/100 g fat	0,1
C18:2n-6 linoleic acid (LA)		g/100 g fat	54,1
C18:2 (sum of)		g/100 g fat	54,2
C18:3n-3 α-linolenic acid (ALA)		g/100 g fat	13,4
C18:3n-6 γ-linolenic acid (GLA)		g/100 g fat	2,3
C18:3 (sum of)		g/100 g fat	15,7
C18:4 n3 stearidonic acid (SDA)		g/100 g fat	0,6
C20:2n-6 eicosadienoic acid		g/100 g fat	< 0,1
C20:3 n-3 eicosatrienoic acid (ETE)		g/100 g fat	< 0,1

Authorized by: Magdalena Bruska, Expert Analyst, Gas Chromatography Laboratory  
 Approved by: Hanna Wachowska, Laboratory Director (Approved with electronic signature)

Laboratory: Gdynia 81-571, Chwaszczyńska 180

The results relate to the analysed samples only. Unless otherwise specified given measurement uncertainty was estimated for the coverage factor k=2 at 95% confidence level. Sampling uncertainty has not been taken into consideration. This Report cannot be reproduced partially without a prior written consent of J.S. Hamilton Poland S.A. Responsibility of J.S. Hamilton Poland S.A. is restricted exclusively to the results and statements presented in original copy of the Report. The service confirmed by this Report is subject to the General Terms and Conditions of Services of J.S. Hamilton Poland S.A. published on [www.hamilton.com.pl](http://www.hamilton.com.pl)

\* Test method accredited, PCA; # Test performed by subcontractor

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C20:3n-6 dihomo- $\gamma$ -linolenic acid	g/100 g fat	< 0,1
C20:4n-3 eicosatetraenoic acid (ETA)	g/100 g fat	< 0,1
C20:4n-6 arachidonic acid (ARA)	g/100 g fat	< 0,1
C20:5n-3 eicosapentaenoic acid (EPA)	g/100 g fat	< 0,1
C22:2n-6 docosadienoic acid	g/100 g fat	< 0,1
C22:5n-3 docosapentaenoic acid (DPA)	g/100 g fat	< 0,1
C22:6n-3 docosahexaenoic acid (DHA)	g/100 g fat	< 0,1
Other fatty acids	g/100 g fat	< 0,1
Total saturated fatty acids (SAFA)	g/100 g fat	12,1
Total monounsaturated fatty acids (MUFA) <sup>1)</sup>	g/100 g fat	17,4
Total polyunsaturated fatty acids (PUFA) <sup>1)</sup>	g/100 g fat	70,4
Total trans fatty acids	g/100 g fat	0,1
Total Omega-3 fatty acids <sup>1)</sup>	g/100 g fat	14,0
Total Omega-6 fatty acids <sup>1)</sup>	g/100 g fat	56,4
Total Omega-9 fatty acids <sup>1)</sup>	g/100 g fat	16,4

<sup>1)</sup> Results of individual sums unsaturated fatty acids do not include content of trans fatty acids.

**END OF REPORT**

Authorized by: Magdalena Bruska, Expert Analyst, Gas Chromatography Laboratory  
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