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Eurofins Turkey Analiz Hizmetleri Ltd. St

 For the attention of **Info**

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Your contact for Customer Service : Séverine Passicos

Our reference :	370-2018-00138235/ AR-18-AA-130309-01	Type :	EX
Client reference :	201802585		
Sample described as :	Butter "President" - 1kg package / Our sample registration N - 80625 // Multitest LTD.		
Packaging :	NonCommercial : 404g		
Your purchase order date :	23/05/2018	Your purchase order reference :	Multitest Ltd. / (EOL) 006-10518-723986
Sample reception date :	28/05/2018 14:18:00	Analysis starting date :	29/05/2018
Sampling/Transport :	TNT		
Analyses requested :	PAABT : Fats & oils authenticity AA25P : Fatty acid profile		

Validation température de réception	CT002: Température supérieure à 5°C	Reception temperature	17.7
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Physical analysis	Results (uncertainty)	Guidelines
A5008 AA 1H-NMR organic molecules Method : Internal, NMR Spectral fingerprint (NMR)	See Interpretation	
AA1KF AA C13-NMR profiling of fats & oils Method : Internal, NMR Spectral fingerprint (NMR)	See Interpretation	

Fatty acid profile	Results (uncertainty)	Guidelines
AA25P AA Fatty acid profile Method : Internal, GC-FID [Internal calibration]		
(a) Saturated fatty acids (%total)	72.69 (± 2.95) %	
(a) Monounsaturated fatty acids	22.41 (± 1.75) %	
(a) Polyunsaturated fatty acids (%total)	2.37 (± 0.74) %	
(a) Trans fatty acids	1.81 (± 0.68) %	
(a) Other fatty acids	0.44 (± 0.46) %	
(a) Omega-3 fatty acids (%total)	0.59 (± 0.49) %	
(a) Omega-6 fatty acids (%total)	1.71 (± 0.66) %	
(a) Fatty acids Omega-6 / Omega-3 Ratio	2.91	
(a) C4:0	3.85 (± 0.87) %	
(a) C6:0	2.59 (± 0.76) %	
(a) C7:0	<0.05 %	
(a) C8:0	1.54 (± 0.64) %	
(a) C9:0	<0.05 %	
(a) C10:0	3.15 (± 0.81) %	
(a) C11:0	0.07 (± 0.33) %	
(a) C11:1	<0.05 %	
(a) C12:0	3.84 (± 0.87) %	
(a) C12:1	0.12 (± 0.36) %	
(a) C13:0	0.12 (± 0.36) %	
(a) C13:1	<0.05 %	
(a) C14:0	12.32 (± 1.36) %	
(a) C14:1 (n-5c)	1.17 (± 0.59) %	
(a) C 14:1 (n-5t)	<0.05 %	
(a) C15:0	1.21 (± 0.60) %	
(a) C15:1 (n-5c)	<0.05 %	
(a) C15:1 (n-5t)	<0.05 %	
(a) C16:0	34.47 (± 2.11) %	

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Fatty acid profile		Results (uncertainty)	Guidelines
AA25P	AA Fatty acid profile	Method : Internal, GC-FID [Internal calibration]	
(a)	C16:1 (n-7c)	2.01 (± 0.70) %	
(a)	C16:1 (n-7t)	0.07 (± 0.33) %	
(a)	C17:0	0.59 (± 0.49) %	
(a)	C17:1 (n-7c)	<0.05 %	
(a)	C17:1 (n-7t)	<0.05 %	
(a)	C18:0	8.58 (± 1.18) %	
(a)	C18:1 (n-6c)	<0.05 %	
(a)	C18:1 (n-7c)	0.57 (± 0.49) %	
(a)	C18:1 (n-7t)	1.19 (± 0.59) %	
(a)	C18:1 (n-9c)	18.54 (± 1.61) %	
(a)	C18:1 (n-9t) + C18:1 (n-12t)	0.42 (± 0.45) %	
(a)	C18:2 (9c,11t)	0.44 (± 0.46) %	
(a)	C18:2 (n-6c)	1.58 (± 0.65) %	
(a)	C18:2 (n-6t)	<0.05 %	
(a)	C18:2 t2	0.12 (± 0.36) %	
(a)	C18:3 (n-3)	0.39 (± 0.45) %	
(a)	C18:3 (n-6)	<0.05 %	
(a)	C18:3 t3 (C18:3 t1+C18:3 t2)	<0.05 %	
(a)	C18:4 (n-3)	0.12 (± 0.36) %	
(a)	C 19:0	0.18 (± 0.38) %	
(a)	C19:1 (n-12t)	<0.05 %	
(a)	C19:1 (n-9t)	<0.05 %	
(a)	C20:0	0.13 (± 0.36) %	
(a)	C20:1 (n-9c)	<0.05 %	
(a)	C20:1 (n-9t)+C18:2 (10t, 12c)+C20:1 (n-15c)	<0.05 %	
(a)	C20:2 (n-6c)	<0.05 %	
(a)	C20:3 (n-3c)	<0.05 %	
(a)	C20:3 (n-6c)	0.08 (± 0.34) %	
(a)	C20:4 (n-6c)	0.12 (± 0.36) %	
(a)	C20:5 (n-3c)	<0.05 %	
(a)	C21:0	<0.05 %	
(a)	C 22:0	0.06 (± 0.33) %	
(a)	C22:1 (n-11)	<0.05 %	
(a)	C22:1 (n-9c)	<0.05 %	
(a)	C22:1 (n-9t)	<0.05 %	
(a)	C22:2 (n-6c)	<0.05 %	
(a)	C 22:3 (n-3c) + C22:4 (n-6c)	<0.05 %	
(a)	C22:5 (n-3c)	0.08 (± 0.34) %	
(a)	C22:5 (n-6c)	<0.05 %	
(a)	C22:6 (n-3c)	<0.05 %	
(a)	C24:0	<0.05 %	
(a)	C24:1	<0.05 %	

CONCLUSION (not covered by the accreditation)

As judged by the results of the analyses performed, and in comparison with industry standards, scientific literature and values at our disposal:

The 1H- and C13-NMR profiling tests did not reveal any peculiarities and are in agreement with this sample's description.

SIGNATURE


Ellen Bongard
Analytical Services Manager

Report electronically validated by Ellen Bongard

EXPLANATORY NOTE

This document can only be reproduced in full ; it only concerns the submitted sample.

Results have been obtained and reported in accordance with our general sales conditions available on request.

When declaring compliance or non-compliance, the uncertainty associated with the result has been added or subtracted in order to obtain a result that can be compared to regulatory limits or specifications. The uncertainty has not been taken into account for standards that already include measurement uncertainty or on explicit request of client.

The tests are identified by a five-digit code, their description is available on request.

The tests identified by the two letters code AA are performed in laboratory Eurofins Analytics France (Nantes). The symbol (a) identifies the tests under accreditation NF EN ISO/IEC 17025:2005 COFRAC 1-0287. Scope available on www.cofrac.fr.