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PRODUCT SPECIFICATIONS

Product: FLORAMAC® Macadamia Oil - Refined
INCI Name: Macadamia Integrifolia Seed Oil
Botanical Origin: *Macadamia integrifolia*
Product Code: L1A-055
Description: Clear, almost colorless, liquid at or above ambient temperature. Below ambient temperature, partial crystallization may appear as cloud-like formations which may settle to the bottom. The product can be used as is or warmed slightly to remove cloudiness.

Typical Properties	Method	Units	Range	
			min.	max.
Allergens (in the form of protein)	AOAC 968.06	wt. %	None detected	
Fatty Acid Composition	AOCS Ce 1e-91	area %		
Myristic - 14:0			0.5	1.5
Palmitic - 16:0			7	11
Palmitoleic - 16:1			18	---
Stearic - 18:0			2	4
Oleic - 18:1			55	62
Linoleic - 18:2			1	4
Arachidic - 20:0			2	4
Eicosenoic - 20:1			2	4
Refractive Index @ 40°C	AOCS Cc 7-25	n _D	1.459	1.461
Saponification Value	AOCS Cd 3-25	mg KOH/g	180	195
Specific Gravity	AOCS Cc 10c-95	---	0.90	0.92
'Trans' isomers	AOCS Cd 14-95	wt. %	None detected	

Specification Values

Acid Value	AOCS Cd 3d-63	mg KOH/g	---	1
Color	AOCS Cc 13e-92	Lovibond 5¼"	---	1R, 5Y
Fatty Acid Composition	AOCS Ce 1e-91	area %		
Palmitoleic, 16:1			18	---
Iodine Value	AOCS Cd 1d-92 or 1c-85	g/100 g	72	79
Odor	TW71	---	Typical	
Peroxide Value	AOCS Cd 8-53	meq/kg	---	4
Absence of Microbial Contamination	TW26	CFU/g	---	100
Absence of Gram Negative Bacteria	TW72		None allowed	

Composition (INCI Name)

	Wt. %
Tocopherol	0.05
Macadamia Integrifolia Seed Oil	99.95

Shelf Life (from date of purchase when stored in the original unopened container at or below 35°C) 1 year

Typical Properties are verified on a random basis.

TW Method: Floritech Methods

Specification properties are verified on every product lot.

AOCS Method: Official Method of the American Oil Chemists' Society

FLORAMAC Section

This product is warranted to perform in accordance with specifications and to be free from defects for 12 months from the date of purchase, when stored in the original unopened container, and with proper handling and storage. Floritech's obligation is limited to replacement of the product and is in lieu of all other warranties, expressed or implied. In no event shall Floritech be responsible for any incidental or consequential damages. Fully detailed technical literature is available. The preceding data is provided for the convenience of the user and does not relieve the user of normal liability for inspection of material upon delivery or prior to actual use. No warranty of fitness for a particular purpose is made. Statements concerning the possible use of our product is not intended as recommendations to use our product in the infringement of any patent. This product contains no animal-derived ingredients and, therefore, cannot carry the Bovine Spongiform Encephalopathy (BSE) disease. This product contains no detectable 'trans' isomers and no ingredients derived from genetically modified organisms (GMO).

PS L1A-055