

Rich in Structured DHA

## Product Bulletin

**Marinol<sup>®</sup> D-40** is concentrated natural fish oil with a high content of the omega-3 fatty acids Docosahexaenoic Acid (DHA) in glyceride form. Concentration is done by means of a gentle enzymatic process and molecular distillation.



### Applications

- ✓ Dietary supplements
- ✓ Dairy products, e.g. (flavored) milk, yogurt and yogurt drinks
- ✓ Meal replacement shakes
- ✓ Nutritional products
- ✓ Beverages, juices
- ✓ Fats and oils, dressings, spreads

### Typical Properties

Appearance at 25 °C .....	Liquid	EPA (C20:5), %* .....	8
Free Fatty Acid (% as Oleic) .....	0.4	mg/g** .....	60
Peroxide Value, meq/kg .....	1.0	DHA (C22:6), %* .....	45
Anisidine Value .....	12	mg/g** .....	340
TOTOX value .....	14	Ratio DHA:EPA .....	6:1
Moisture, % .....	0.02	ARA (C20:4), %* .....	3
Lovibond color, yellow, 1" cell .....	25	mg/g** .....	20
Lovibond color, red, 1" cell .....	3	Total Omega-3, %* .....	55
		mg/g** .....	430

\* Values given in % are relative peak area in chromatogram

\*\* Values given in mg/g are absolute amount of free fatty acid per g of glyceride oil

### Nutrition Information (per 100 grams)

Calories from Fat, kcal .....	891	DHA (C22:6), g .....	34
Total Fat, g .....	99	ARA, C20:4), g.....	2
Saturated Fat, g .....	19	Protein, g .....	0
Monounsaturated Fat, g .....	15	Total Carbohydrate, g .....	0
Polyunsaturated Fat, g .....	66	Cholesterol, g .....	1
EPA (C20:5), g .....	6		

### Antioxidants

Mixed Natural Tocopherols, mg/g .....

Concentration of mixed natural tocopherols may decrease over time during storage, due to antioxidant activity.

### Ingredients

Concentrated fish oil, Antioxidant (mixed natural tocopherols)





### Packaging

Marinol D-40 is packaged under nitrogen and is available in steel drums of 190 kg net or 15.85 kg jug-in-box.

### Statements

Marinol D-40 is

- ✓ Food Grade.
- ✓ Produced following the principles of Food Safety Standards.
- ✓ Fully traceable from finished products to raw materials and vice versa.
- ✓ Non-GMO (Genetically Modified Organism). Not based on genetically modified raw materials and does not need to be labeled under GM labeling rules.
- ✓ Allergens: Fish (refined fish oil concentrate)
- ✓ Free from any irradiated or ionized components and has not been ionized or irradiated.
- ✓ Not subjected to risk from Bovine Spongiform Encephalopathy (BSE) and Transmissible Spongiform Encephalopathy (TSE).
- ✓ Not mentioned in the World Anti-Doping Agency (WADA) prohibited substances list and is free from prohibited substances mentioned in the WADA list as of the publication date of this document.

### Storage & Handling

Marinol D-40 is stable if stored in the unopened original packaging (under nitrogen) for at least 6 months from date of production at a temperature below 7 °C (44 °F), and for at least 24 months from date of production at a temperature of -18 °C (-0.4 °F). The product should be stored away from strong odors and direct sunlight. Before use, it may be necessary to carefully warm product at temperatures not to exceed 30 °C (86 °F) under a controlled, inert atmosphere with careful mixing until clear (homogeneous).

Normal safety precautions should be employed when handling Marinol D-40.

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