

## **PRODUCT SPECIFICATION -REFINED FISH OIL**

Product Name : Fish Oil Refined  
Content : Sardine Fish Oil

<u>Description</u> <u>Method/Standard</u>	<u>Typical Results</u>	<u>Test</u>
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### **Physical Data**

Colour and Appearance	Yellow liquid	Visual
Odour	Fishy Odour	Organoleptic
Specific Gravity at 25 <sup>0</sup> C	0.880-0.890 g/cc	AOAC 920.212
Cold Test	5 <sup>0</sup> ± 1 <sup>0</sup> C ( 3Hours)	In House Specifications

### **Chemical Data**

Solubility (Water)	Insoluble	In House Specifications
Solubility (Acetone)	Very soluble	In House Specifications
Solubility (Heptane)	Very soluble	In House Specifications
Solubility (anhydrous Alcohol)	Very soluble	In House Specifications
Colour (Gardner Colour scale)	5-7	ASTM D1544
Acid value	0.5-1 mg KOH/g	AOAC 940.28
Free fatty acids	0.2-0.5 %	In House Specifications
Iodine Value (Wij's Method)	175-180 I <sub>2</sub> / 100g	AOAC 965.336
Peroxide Value	2-4 meq /Kg	AOAC 920.159
Moisture	0.05-0.08 %	USP 37-921
Total Heavy Metals	BDL	ICP-MS
Total Pesticides	Absent	EC 2017/644

### **Fatty Acid Composition**

Total Omega 3 Fatty Acids (n-3 PUFA)	20-30% (GC Method)	GC- FID
Eicosapentaenoic acid – EPA	15-20 %	GC- FID
Docosahexaenoic acid - DHA	5-10 %	GC- FID

<u>Description</u>	<u>Results</u>	<u>Test Method/Standard</u>
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**Microbiology :**

Total Plate Count(CFU/GM)	100-140	AOAC, BAM
Yeast & Moulds(CFU/GM)	80-100	AOAC, BAM
E-Coli	Negative	AOAC, BAM
Salmonella	Negative	AOAC, BAM

*Note\* Omega- 3 acids includes Alphinolenic acid (C18:3 n-3), Moroctic acid (C18:4 n-3), Elicosatetraenoic acid (C20:4 n-3), Eicosapentaenoic acid (C20:5 n-3 EPA), Heneicosapentaenoic acid (C21:5 n-3), Clupanodonic acid (C22:5 n-3) and Docosahexaenoic acid (C22:6 n-3 DHA)*