




# Purity Levels



Our purification process enables compliance to the following fish oil quality levels and standards.

Fish Oil Standards and Associated Limits						
Test Category	GOED	IFOS 5-star rating	WHO	PROP 65	EP	
<b>ENVIRONMENTAL TOXIN LIMITS</b>						
PCBs (209 Congeners)	< 90 ppb	< 45 ppb	N/A	0.09 ug /day	< 200 ppb	✓
Dioxins & Furans	< 1.75 pg	< 1.0 pg	N/A	0.000005 ug/day	< 1.75	✓
Dioxin-Like PCBs	< 3 pg/g	< 1.5 pg/g	N/A	N/A	N/A	✓
Sum of Dioxins, Furans, & Dioxin Like PCBs	< 3.0 pg/g	N/A	N/A	N/A	N/A	✓
Radiation	N/A	50 Bq/kg	<100 Bq	Listed / no limit	N/A	✓
<b>HEAVY METALS</b>						
Mercury	<0.1 ppm	<0.1 ppm	N/A	N/A	0.1 ppm	✓
Lead	<0.1 ppm	<0.1 ppm	<0.1 ppm	0.5 ug/day	3.0 ppm	✓
Inorganic Arsenic	<0.1 ppm	<0.1 ppm	<0.1 ppm	10 ug/ day	N/A	✓
Cadmium	<0.1 ppm	<0.1 ppm	N/A	4.1 ug/day	1.0 ppm	✓

**GOED:** - Global Organization for EPA and DHA Omega-3, OMEGA-3 trade association standard

**IFOS:** – International Fish Oil Standards program, Nutrasource / NDI 3<sup>rd</sup> party

**WHO:** World Health Organization, fish oil monograph

**Prop 65:** California Proposition 65 requirements

**EP:** European Pharmacopeia Standards / EFSA

ppm – parts per million  
ppb – parts per billion  
ppt – parts per trillion  
pg – picogram  
ug – microgram  
“<” is less than

**TEST METHODS:**

- Dioxin Analysis – Method USEPA 1613B
- Furan Analysis – Method USEPA 1613B
- Dioxin Like PCB Analysis - Method USEPA 166A/C
- Total PCB Summary - Method USEPA 1668 A/C
- Total 209 Congener PCB – Method USEPA 1668, SPBO
- Inorganic Arsenic - EPA 1632
- Arsenic, Lead Cadmium - USEPA 3051, 200.7, 200.8
- Mercury - USEPA 245.6 (cold vapour AAS)



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<b>OXIDATION LIMITS</b>						
Peroxide (Pv)	< 5 mEq/ kg	< 5 mEq/ kg	< 5 mEq/ kg (draft)	N/A	< 10 mEq/ kg	✓
Anisidine (pAv)	< 20	< 20	< 20 (draft)	N/A	< 30 mEq/kg	✓
Total Oxidation (2*pv+ pAv)	< 26	< 19.5	< 26 (draft)	N/A	None specified	✓
Acid Value	< 3.0 mg KOH/g	< 3.0 mg KOH/g	< 3.0 mg KOH/g (draft)	N/A	< 3.0 mg KOH/g	✓
Microbial Bacteria Solvent Residue Contaminants using USP method 467 (Class I, II, and III) Pesticide Contaminants residue using USP method 561						✓ ✓ ✓

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