

# FISH OIL STANDARDS | TESTING LIMITS

Zinzino adheres to the stringent European Pharmacopoeia Standard (EP) as well as voluntary standards set by the Global Organization for EPA and DHA Omega-3 (GOED), the International Fish Oil Standards (IFOS) program, World Health Organization (WHO) fish oil monograph, and California's Proposition 65 (PROP 65).

Key: mEq=millequivalents o2 ng=nanogram pg= picogram µg= microgram TE= tocis equivalent KOH= Potasium Hydroxide	Zinzino conforms/ fails	GOED Omega-3 Trade Association Standards	IFOS Nutrasource/ NDI 3rd- Party Testing	WHO World Health Organization Standards (Co- dex Alimentarius)	PROP 65 Safe Harbor (NSRLs), California Standards	EP European Pharmacopoeia Standard/EFSA
<b>ENVIRONMENTAL TOXIN LIMITS</b>						
PCBs (Total 209 Congeners)	Conforms	< 90 ppb	< 45 ppb	N/A	0.09 µg/day	<200 ppb (EFSA PCB regulation measures the Sum of ICES 6)
Dioxins & Furans	Conforms	< 1.75 pg WHOPCDD/ F-TEQ/g - (1.75 ppt)	< 1 pg WHOPCDD/ F-TEQ/g - (1 ppt)	N/A	< 1 pg WHOPCDD/ F-TEQ/g - (1 ppt)	< 1.75 pg WHO-PCDD/ F-TEQ/g - (1.75 ppt) (EFSA)
Dioxin-like PCBs	Conforms	< 3 pg/g (WHOTEQ) - (3 ppt)	< 1.5 pg/g (WHOTEQ) - (1.5 ppt)	N/A	N/A	N/A
Sum of Dioxins, Furans, & Dioxin-like PCBs	Conforms	< 3 pg/g (WHOTEQ) - (3 ppt)	N/A	N/A	N/A	< 6 pg/g (WHO)
Radiation	Conforms	N/A	50 Bq/kg	< 100 Bq/kg (Iodine isotopes) < 1000 Bq/kg (Cesium Isotopes)	Listed, no values given	N/A
<b>OXIDATION LIMITS</b>						
Peroxide (PV)	Conforms	< 5 mEq/kg	< 5 mEq/kg	< 5 meq/kg (Draft monograph)	N/A	< 10 mEq/kg
Anisidine (AV)	Conforms	< 20	< 20	< 20 (Draft monograph)	N/A	< 30 mEq/kg
Total Oxidation (TOTOX)	Conforms	< 26	< 19.5	< 26 (Draft monograph)	N/A	None specified
Acid Value	Conforms	< 3.0 mg KOH/g	< 3.0 mg KOH/g	< 3.0 mg KOH/g (Draft monograph)	N/A	< 3.0 KOH/g
<b>HEAVY METAL LIMITS</b>						
Mercury	Conforms	< 0.1 ppm	< 0.1 ppm	N/A	N/A	0.1 ppm (EFSA)
Lead	Conforms	< 0.1 ppm	< 0.1 ppm	<0.1 ppm	0.5 µg/d	3.0 ppm (EFSA)
Arsenic (Inorganic)	Conforms	< 0.1 ppm	< 0.1 ppm	<0.1 ppm	10 µg/d	N/A
Cadmium	Conforms	< 0.1 ppm	< 0.1 ppm	N/A	4.1 µg/d	1.0 ppm (EFSA)

For more on fish oil testing, please see the following standards:

[GOED Overview](#)  
[GOED Monograph](#)

[GOED Guidance Docs](#)  
[IFOS Overview](#)

[WHO Draft Fish Oil Mono](#)  
[WHO HM/RADS Limits](#)

[CA Prop 65 Info](#)  
[CA Prop 65 List/Limits](#)

[EFSA PCBs](#)  
[EFSA HMs](#)