



North and South Krill Species
Composition Comparison

Compound	Raw Fresh Krill				Krill Oil			
	Northern Species (a) (d)		Southern Species (b)		Northern Species (a) (d)		Southern Species (b)	
	High Fat Season	Low Fat Season	High Fat Season	Low Fat Season	High Fat Season	Low Fat Season	High Fat Season	Low Fat Season
	Spt-Jan (d)	Feb-Aug	Mar-Jun	Jul-Feb				
Length (mm)	15 - 25		30 - 55					
Weight (g)	0.03 - 0.15		0.5 - 1.0					
Moisture (%)	73 - 78	80 - 85	76 - 78	80 - 82				
Lipids (%)	5 - 8	1 - 3	4 - 7	1 - 3				
Proteins (%)	10 - 15	12 - 15	10 - 12	10 - 11				
Wax esters (%)	5 - 10	8 - 9	n/d (c)	n/d (c)	8 - 20		-	
Total phospholipids (%)	10 - 25	12 - 41	40 - 65	46 - 65	10 - 25		35 - 45	
EPA (%)	15 - 20	22 - 24	19 - 23	20 - 23	5 - 10		12 - 18	
DHA (%)	5 - 10	14 - 15	10 - 16	12 - 24	2 - 5		6 - 10	
Astaxanthin (mg/kg)	35 - 50	35 - 45	40 - 50	28 - 37	1.050 - 1.350		100 - 250	
Fluorine (ppm)		250 - 310		750 - 2.000				
Solvents (%)					Solvent-free		Solvent-free	
Krill Oil produced on board					Yes		Yes	

Remarks

- a) Primary Species - *Thysanoessa inermis*, *Thysanoessa raschii*, *Meganyctiphares norvegica*
- b) Primary Species - *Euphausia superba*
- c) Not detected
- d) Representative mix October
 - 1) Ratio 60-95% *raschii*, 5-40% *inermis*, 3% *norvegica* and 0-0.5% *longicaudata*.
 - 2) Dimensions *raschii* 0.1-0.15g/22-25mm; *inermis* 0.03-0.05g/15-17mm; *longicaudata* 0.02-0.04g/13-16mm; *norvegica* 0.03-0.06g/15-17mm

	PL (%)
<i>M. norvegica</i>	5 (DW of ttl lipids) (stable throughout the year)
<i>T. inermis</i> + <i>raschii</i>	5 to 20 (DW of ttl lipids) 37 to 56 (DW of ttl lipids) 83 to 98 (DW of ttl lipids in summer) (not stable throughout the year low vs. high fat seasons)
<i>E. superba</i>	40 - 60 (DW of ttl lipids)

	Omega3 (% from the lipid content)
<i>M. norvegica</i>	In the PL fraction - EPA = 16-17% + DHA = 27-29% In the TG fraction - EPA = 2-3% + DHA = 4 - 4.3%.
<i>T. inermis</i>	In the PL fraction - EPA = 27-34% + DHA = 13-23% In the TG fraction - EPA = 5-6% + DHA = 1-2%.
<i>T. raschii</i>	In the PL fraction - EPA = 26-30% + DHA = 14-33% In the TG fraction: EPA = 4-7% + DHA = 1-2%.
<i>E. superba</i>	In PL fraction - EPA = 24-31% + DHA = 14-25% In the TG fraction - EPA = 0.1-3% + DHA = 1-3%

	Length (mm)	Weight (g)	Lifepsan (yrs.)
<i>E. superba</i>	55-65	1.5-2.0	6.5-7.0
<i>T. inermis</i>	10-32	0.15-0.20	2.0-2.5
<i>E. pacifica</i>	20-25	0.1-0.15	3.0-3.5
<i>T. raschii</i>	10-32	0.15-0.20	2.0-2.5
<i>E. nana</i>	10-15	0.01-0.02	<1
<i>N. australis</i>	12-18	0.15-0.25	1
<i>T. longipes</i>	6-25	0.05-0.02	2.0-2.5