

**IDENTIFICATION:**

- Product name: Superba™ Boost
- Product number: 72030000
- Batch number: G239/001/A16
- Harvesting position: 64°21S 61°19W
- Manufacturing date: August 26, 2016
- Expiry date: August 24, 2018
- Country of origin: Manufactured at Aker BioMarine Manufacturing LLC in Houston, Texas, US
- Environmental: The environmental data for this batch is reported on the document "Environmental Reporting Sheet".

**ANALYTICAL SPECIFICATION:**

PARAMETER	METHOD	ACTUAL VALUE	LIMITS	UNIT
Appearance	Visual	Red viscous oil	Red viscous oil	
Identification	Gas Chromatography (FAME)	Conforms	Conforms <sup>3</sup>	
Viscosity at 35°C	Rotational Viscometer	1691	≤2000	mPa·s
TMA + TMAO	Conway	<1	Report Value	mgN/100g
Salts	ICP / Ion Selective Electrode	<0.2	≤ 0.5	g/100g
<b>LIPID COMPOSITION</b>				
Total phospholipids	<sup>31</sup> P-NMR	58	≥56	g/100g
Phosphatidylcholine <sup>2</sup>	<sup>31</sup> P-NMR	55	≥48	g/100g
Choline	<sup>31</sup> P-NMR	8	≥7	g/100g
<b>FATTY ACID PROFILE</b>				
Total omega-3 fatty acids	Internal method ANA-2014-07 <sup>1</sup>	32	≥27	g/100g
- C 20:5 n-3 (EPA)	Internal method ANA-2014-07 <sup>1</sup>	17	≥15	g/100g
- C 22:6 n-3 (DHA)	Internal method ANA-2014-07 <sup>1</sup>	9	≥7	g/100g
EPA and DHA bound to PL	Gas Chromatography (FAME)	18	≥16	g/100g
<b>STABILITY INDEX</b>				
Peroxide value	AOCS Cd 8-53	1	≤2	mEq peroxide/kg
<b>ANTIOXIDANTS</b>				
Astaxanthin	FCC / USP-NF (UV)	114	≥85	µg/g
Astaxanthin esterification (ID) <sup>4</sup>	CQ-MO-430 (HPLC)	Conforms	Conforms	
<b>WATER AND ETHANOL</b>				
Water	Karl Fischer	1	≤2	g/100g
Water Activity at 25°C	Moisture Probe	0.2	≤0.5	
Ethanol content	Gas Chromatography	3	≤3	g/100g
<b>MICROBIOLOGY</b>				
Total plate count	AOAC 990.12	<10	<1000	cfu/g
Mould and Yeast	FDA-BAM, 7 <sup>th</sup> ed.	<10	<100	cfu/g
E.Coli	AOAC 991.14	Negative	Negative	In 1g sample
Coliform bacteria, 37°C	AOAC 991.14	<10	<10	cfu/g
Salmonella negative (PCR)	AOAC-RI100201	Negative	Negative	In 25g sample

1) Based on USP FCC8 Appendix VII (2013) (based on AOCS Ce 1b-89 and AM-ABM-013 (in house method of Vitas)

2) Phosphatidylcholine value quoted includes Lysophosphatidylcholine

3) EPA and DHA as PL ≥ 60% w/w of total EPA and DHA and oil conforms to limits for Total Phospholipids and Phosphatidylcholine

4) Three batches tested annually to assure continued compliance

**PACKAGING:**

Bulk product in sealed drums, inert headspace, complying with European and American standards for food products.

**HANDLING AND STORAGE:**

Store cold at 2-8°C, dry and protected from direct sunlight. Due to high viscosity and possible stratification during storage, product should be agitated before use or sampling. Viscosity may be reduced by heating (up to 35°C) and /or gently stirring if necessary. Drums opened for sampling should be headspace flushed with inert gas prior to storage. Product can be stored at ambient temperature (2-30°C) during transportation (transit and immediate storage) for a maximum period of 14 days.


**BEST BEFORE DATE:**

2 years when stored in unopened and sealed drums at recommended storage conditions.

**COMMENTS:**

May contain traces of crustacean proteins.



	Printed name	Signature	Position in company	Date
Approved by	P. Frensch		QA	23 SEP 2016