



**Plankton Australia Pty Limited**  
Natural Culture®

DG: issue date 19/04/12

**Product specification sheet**

Country of Origin	:	Australia
Product Name	:	Australian Marine Phytoplankton, <i>Dunaliella</i> Gold
Trade Names	:	<i>Dunaliella</i> Salina Dry Marine Algae®, <i>Dunaliella</i> micro algae Seaweed
Synonyms	:	AQL Dry Seaweed Algae, Dry <i>Dunaliella</i> Salina Seaweed, Dry Marine micro algae
Botanical name	:	<i>Dunaliella Salina</i>
Product Code	:	DMA
Starting raw material	:	Identified as <i>Dunaliella Salina</i>
Plant part	:	Whole biomass
Appearance	:	Orange to brown powder
Odour	:	Characteristic
Taste	:	Characteristic (salty)
Identification	:	UV-VIS spectrophotometric fingerprint
Loss on drying	:	Not greater than 10 %
Excipient	:	None
Carrier	:	None
Solvents used	:	No solvents are used in any part of the process.
Organic certification	:	This product is not genetically modified in any way and is Certified Organic

**DESCRIPTION:**

Plankton Australia's dry seaweed algae, is naturally produced from the micro algae *Dunaliella Salina*, containing mixed Carotenoids, physically concentrated, without the use of chemical additives, and dehydrated to give a free flowing powder. Plankton Australia's material is certified Organic, in accordance with Australian and USDA NOP standards. No solvents are used in the process. This product is not genetically modified in any way, and is Certified Organic.

**SOURCE:**

This product is derived from the seaweed *Dunaliella Salina*, grown and harvested by Plankton Australia's biomass growth ponds, at Karratha situated in the North Western part of Western Australia.

**USES:**

Food additives, dietary supplements, nutraceuticals, cosmetic additives, aquatic, animal husbandry and natural colouring agent.

**PACKAGING:**

Plankton Australia's Australian Marine Phytoplankton dry seaweed algae is vacuum evacuated and nitrogen flushed into 10 kg bags with 2 x 10 kg bags per carton. An oxygen absorber is added prior to sealing helping maintain freshness and nutrient content. Should the foil bag become punctured the algae will deteriorate quickly due to the presence of oxygen. It will need to be flushed with nitrogen prior to re-sealing.

**PARTICLE SIZE:**

Bulk density: approx 400kg/m<sup>3</sup>

Mesh: 100% through 40 mesh (maximum 425 microns)

Particle Size: 425 microns to 150 microns

**STORAGE:**

Care to prevent damage to the nitrogen flushed bag. Once opened the whole bag should be used immediately. Moisture and air ingress should be avoided. Store away from sunlight, at room temperature in original packaging, for up to 60 months from date of manufacture.

**STABILITY:**

Within 60 months from date of manufacture in original unopened packaging.

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PRODUCT DATA:

Ingredient	Batch Result	Assay Method
betaCarotene	: >1.0 (% w/w)	AQL Individual phytonutrients by HPLC 4.0

Heavy Metals	Limits (mg/kg)	Assay Method
Arsenic	<10	ICP-MS
Cadmium	<0.40	
Lead	<10	
Mercury	<0.20	

Microbiological	Limits	Assay Method
TAMC	<10 <sup>4</sup> cfu/gram	TGA Class 2b Methods and Guidelines
Yeast and mould	<10 <sup>2</sup> /gram	
Enterobacteria	<10 <sup>2</sup> /gram	
<i>E. Coli</i>	Not detected /gram	
Salmonellae	Not detected /10 grams	

Pesticides	Limits (mg/kg)	Assay Method
Aldrin	0.01	ARL No 003
BHCs	0.01	
Chlordane	0.01	
Chlorpyifos	0.05	
DDE	0.01	
DDD	0.01	
DDT	0.20	
Dieldrin	0.20	
Endosulphan 1	0.01	
Endosulphan 2	0.01	
Endosulphan Sulphate	0.01	
HCB	0.01	
Heptachlor	0.01	
Heptachlor Epoxide	0.01	
Oxychlordane	0.01	
Bromosphos Ethyl	0.01	
Ethion	0.01	
Diazinon	0.10	
Malathion	0.10	
Fenitrothion	0.10	

Metals	Typical Analysis (mg/kg)	Assay Method
Aluminium	82	ARL No 027
Calcium	2130	
Chromium	1.3	
Copper	3	
Iron	403	
Potassium	20500	
Magnesium	45910	
Molybdenum	2	
Sodium	11000	
Nickel	1	
Zinc	30	

PRODUCT DATA (cont.):

Nutrient's	Limits (mg/kg)	Assay Method
Alkalinity (mgCaCO <sub>3</sub> )	3000	ARL No 037
Chloride	250000	
Nitrate –N	0.1	
Phosphate (P)	N/A	
Phosphorous (Filter React)	750	
Phosphorus Total	2000	
Sulphate	75000	

Nutritional Panel	Typical Analysis (g/100g)	Assay Method
Energy (kj/100g)	893	By Calculation
Protein	7.4	AOAC No. 992.15
Total Fat	7	AOAC No. 983.23
Saturated Fat	1.7	AOAC No. 996.06
Total Carbohydrates	30.0	By Difference
Total Sugar	0.1	Pearson's 8 <sup>th</sup> Edition
Sodium (mg/100g)	13,000	AOAC No. 969.31
Water	10.0	AOAC No. 950.46
Ash	50.0	AOAC No. 920.153

**SAFETY:**

In accordance with the Material Safety Data Sheet

**REGULATORY STATUS:**

Certified Organic, in accordance with Australian and USDA NOP standards  
Not genetically modified in any way, and GMO free.

*Stamp of Authenticity*

**DOCUMENTATION:**

A Certificate of Analysis is provided with each batch.  
Material Safety Data Sheet is available upon request.

**PLANKTON AUSTRALIA PTY LIMITED**

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