



**PTAqua**  
Feeding Global Aquaculture

**EMERALD**

## EMERALD ROTIFER DIET

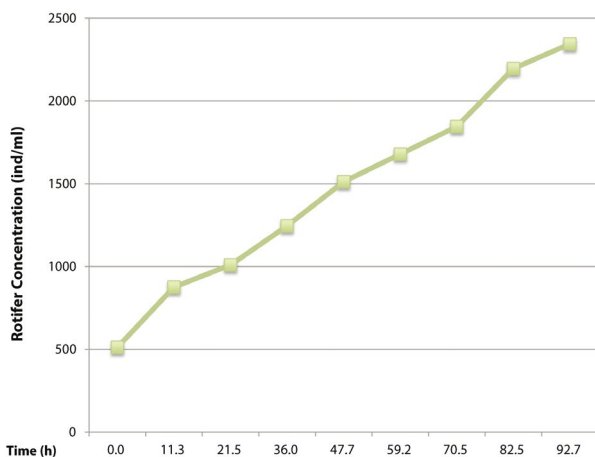
### FEATURES:

- Spray dried fine Chlorella powder
- Axenic culture production (Patented process)
- Economical
- Designed for high and low density rotifer cultivation
- Long shelf life
- Stable production

### PRODUCT SPECIFICATION:

**Vitamin B-12:** > 10 µg/g  
**Package Size:** 2 kg Foil Bag  
**Cell Size:** 2-10 µm

### TYPICAL GROWTH PERFORMANCE USING CHLORELLA POWDER



### FEEDING AMOUNTS (L-type rotifers):

#### Day 1

0.6g- 0.8g /  
million rotifers/ day

#### Day 2

0.5g- 0.6g /  
million rotifers/ day

#### Day 3

0.5g- 0.6g /  
million rotifers/ day

#### Day 4

Harvest

### HOW TO USE DAESANG CHLORELLA POWDER IN ROTIFER CULTIVATION:

- Blend EMERALD with fresh water using electric mixer for 5 minutes.
- Allow settle for 5 minutes, then mix again for 2 min.
- The prepared suspension is recommended to be stored in refrigerator and used within 48 hours.
- \*The maximum mixing ratio of the Chlorella powder is up to 120g/1L

### FEEDING METHOD:

- Temperature: 26.5-28°C
- Salinity: 18-35ppt (depending on local strain and conditions)
- Concentration of oxygen: Over 4ppm
- Recommended initial rotifer density: 300-500 ind./ml

### FEEDING MANNER:

- Use peristaltic pump for continuous feeding (recommended) or feed 4-6 times/day intermittently.

### SHELF LIFE & STORAGE

**SHELF LIFE:** 24 MONTHS FROM PRODUCTION DATE

**STORAGE:** EMERALD SHOULD BE KEPT IN DARK, AND DRY AND COOL PLACE (BELOW 25°C). CONSUME WITHIN 60 DAYS OF OPENING.



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**NUTRITION COMPOSITION PER 100g OF DRY NET WEIGHT**

**GENERAL COMPOSITION (per 100g)**

PROTEIN	60.6 g
CARBOHYDRATE	15.7 g
FAT	12.8 g
ASH	4.5 g
MOISTURE	5.4 g
CALORIES	372 kcal

**VITAMINS (per 100g)**

CHLOROPHYLL	2,400 mg
CAROTENE	106 mg
VITAMIN A POTENCY	58,900 IU
VITAMIN B1	1.29 mg
VITAMIN B2	4.55 mg
VITAMIN B6	1.62 mg
VITAMIN C	74 mg
VITAMIN E	22.8 mg
VITAMIN K1	263 mg
BIOTIN	0.30mg
CHOLINE	230 mg
FOLIC ACID	4.50 mg
INOSITOL	304 mg
NIACIN	32.1 mg
PANTOTHENIC ACID	1.80 mg

**MINERAL (per 100g)**

CALCIUM	5.1 mg
COPPER	0.14 mg
IODINE	1.20 mg
IRON	22.4 mg
MAGNESIUM	310 mg
MANGANESE	3.84 mg
PHOSPHORUS	1,060 mg
POTASSIUM	1,120 mg
SODIUM	1.8 mg
ZINC	3.37 mg

**AMINO ACIDS (per 100g)**

SATURATED FATTY ACIDS	21.2 %
UNSATURATED FATTY ACIDS	72.1 %
OTHERS	6.7 %

**AMINO ACIDS (per 100g)**

ALANINE	4.38 g
ARGININE	3.51 g
ASPARTIC ACID	4.86 g
CYSTINE	0.71 g
GLUTAMIC ACID	6.60 g
GLYCINE	3.19 g
HISTIDINE	1.16 g
ISOLEUCINE	2.04 g
LEUCINE	4.52 g
LYSINE	4.88 g
METHIONINE	1.20 g
PHENYLALANINE	2.48 g
PROLINE	2.54 g
SERINE	2.19 g
THREONINE	2.38 g
TRYPTOPHAN	1.01 g
TYROSINE	1.64 g
VALINE	3.14 g

**FATTY ACIDS (per 100g)**

MYRISTIC ACID	C14:0	0.2%
MYRISTOLEIC ACID	C14:1	0.2%
PALMITIC ACID	C16:0	20.5%
PALMITOLEIC ACID	C16:1	1.2%
9,12 HEXADECADIENOIC ACID	C16:2	19.8%
9,12,15 HEXADECATRIENOIC ACID	C16:3	1.1%
STEARIC ACID	C18:0	0.4%
OLEIC ACID	C18:1ω9	1.5%
LINOLEIC ACID	C18:2ω6	46.3%
ALPHA LINOLENIC ACID	C18:3ω3	2.0%
ARACHIDIC ACID	C20:0	0.1%
UNIDENTIFIED	N/A	6.7%

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