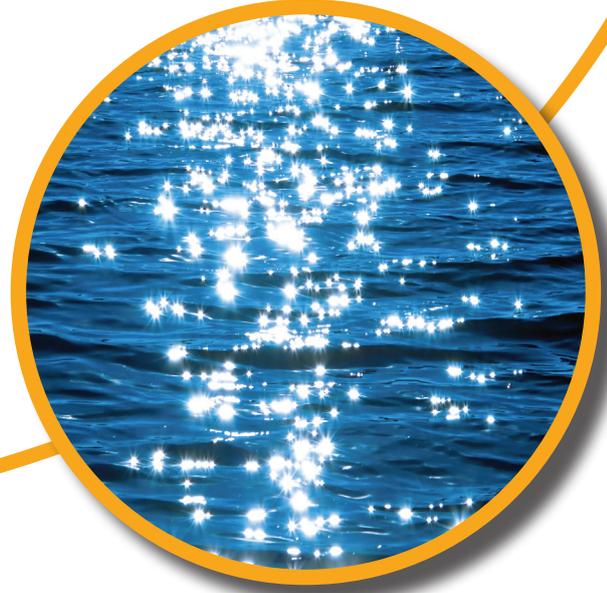


S.parkle[®]

**Batch diet for
a consistent,
performing
rotifer culture**



KEY BENEFITS

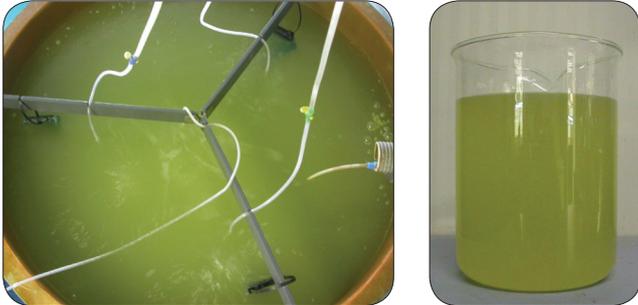
- Developed using only healthy, natural ingredients
- Sparkling clean, for an easy management of the rotifer tanks
- Designed to reduce workload providing short and highly productive runs
- Allows to re-inoculate up to 50 consecutive generations
- Cost-effective and easy to use



CHARACTERISTICS

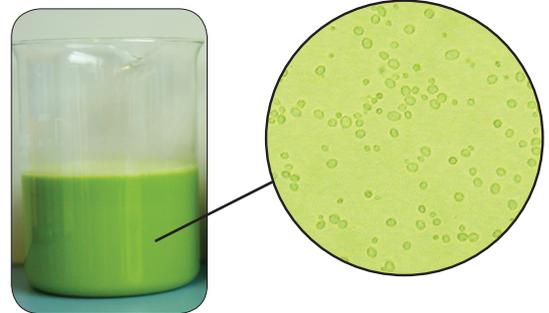
CLEAN

Optimal behavior both during preparation and in the culture tank. The surface is clean, without foam or flock formation, for a constant rotifer performance.



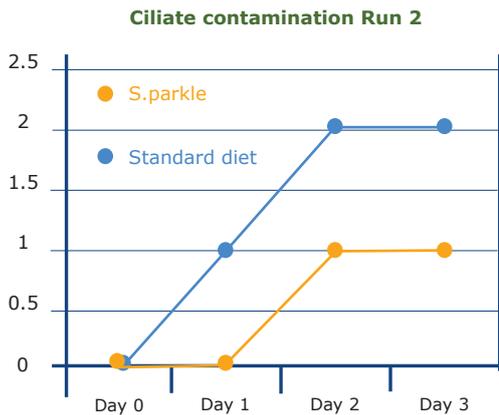
NATURAL

Formulated with high quality protected algal components and purified ingredients following a strict quality control protocol, **S.parkle** is a consistent product with a nice green algae-like color.



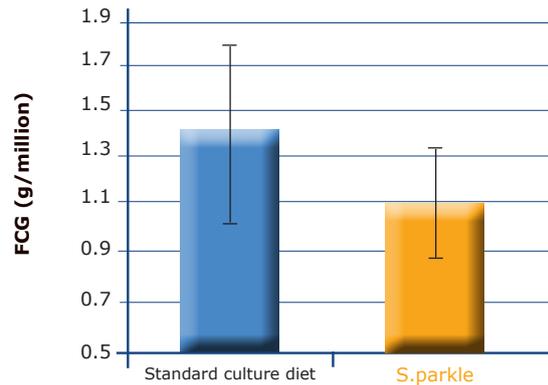
REDUCED CILIATE CONTAMINATION

Contamination starts +/- 1 day later, ciliates are less in number, which makes filtration easier and faster. The graph represents relative number of ciliates found in a standard culture diets vs **S.parkle**.



ECONOMIC

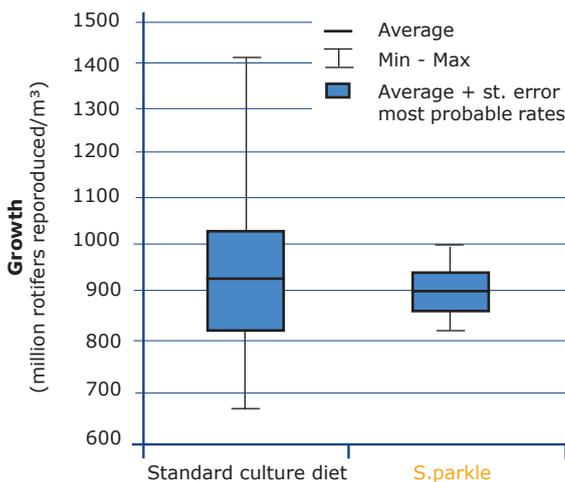
Over 20% less is needed for the same results as only 1.1 g is necessary to produce 1 million rotifers vs 1.4 g of a standard culture diet.



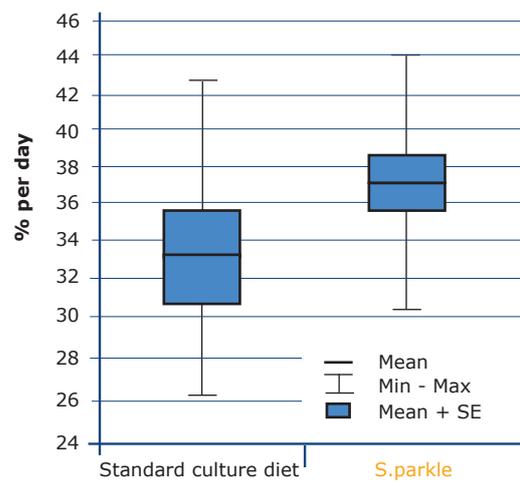
CONSISTENT AND PRODUCTIVE

Suitable for very short and productive cycles in any condition. The product ensures a constant and stable rotifer production, allowing generations to be re-inoculated up to 50 consecutive runs.

Stability of rotifer growth in a 3 day culture
(density at start: 500 rot/ml)

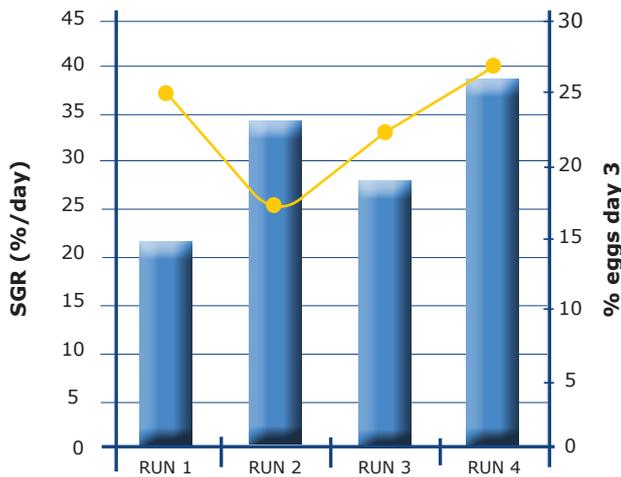


SGR* of rotifers in a 3 day batch culture
(density at start: 500 rot/ml)

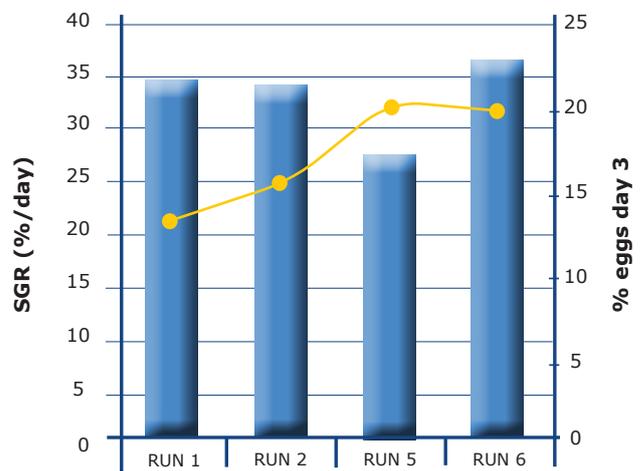


* = Standard Growth Rate

3 day batch culture
(density at start: 750 rot/ml)



3 day batch culture
(density at start: 1000 rot/ml)



USE

PREPARATION AND USE OF THE PRODUCT

- ① Blend **S.parkle** during 3 to 5 minutes in fresh water with an industrial mixer using a maximum of 100 g per liter.
- ② Create a vortex first and then slowly add **S.parkle** to the water.
- ③ Start with an inoculum of between 250 and 1.000 rotifers per ml. Apply according to culture strategy below.

PREPARATION OF THE TANK

- ① Clean and disinfect the culture tank, airstones, air tubing prior to use. Use e.g. 200 g/m³ active chlorine + detergent.
 - ② Disinfect the water of the tank with e.g. 10 ppm active chlorine and aerate gently for ± 1 hour.
 - ③ Deactivate any remaining chlorine by adding 12 ppm sodiumthiosulphate.
 - ④ Suspend airstones 15 cm above the tank bottom, along the periphery and also in the centre to allow sedimentation and flushing of waste particles.
- Gentle aeration through the use of airstones; sufficient to keep the rotifers in suspension but at the same time allowing debris to deposit.
 - The use of suspended or airwaterlift floc traps, is advised to ensure a clean culture by the removal of waste floccules and Vorticella.

CULTURE FEEDING STRATEGY

Rot per ml	Suggested amount of S.parkle
250 - 500	0,70 g per million rotifers
500 - 750	0,50 g per million rotifers
750 - 1.000	0,45 g per million rotifers
1.000 - 1.500	0,40 g per million rotifers
1.500 - 2.000	0,35 g per million rotifers
2.000 - 3.000	0,30 g per million rotifers

Notes:

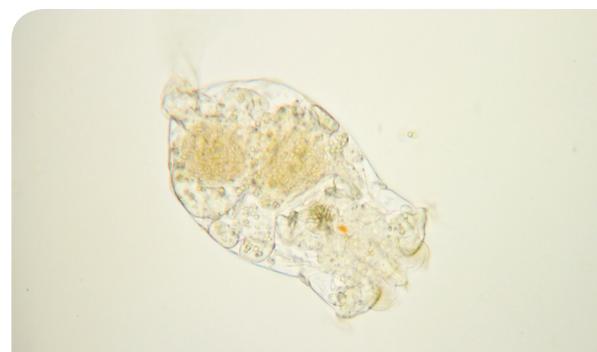
- > Feed the daily quantities in 4 to 6 rations or use a continuous feeding device.
- > On the first culture day, start with 0,7 g **S.parkle** per million rotifers. From this amount, use as background feeding: low density (300 rot/ml) 80 ppm. Medium density (500 rot/ml) 100 ppm. High density (1000 rot/ml) 120 ppm.
- > Never exceed a maximum daily feeding of 600 ppm.

TANK SET-UP AND OPTIMAL CULTURE CONDITIONS

- Temperature 25-27°C
- Salinity 20-30 ppt¹
- Dissolved oxygen 5-7 ppm²
- NH₄⁺ < 20 ppm;
- NH₃ < 1 ppm
- pH level of 7 to 8,5
- The use of additional oxygenation systems is essential to maintain a minimum oxygen level of 4ppm during the entire culture period.

¹ ppt = parts per thousand

² ppm = parts per million



S.parkle is...

CLEAN

An optimal behavior in the culture tank. The surface is sparkling clean, without foam or flock formation, for a constant rotifer performance.

NATURAL

Formulated with high quality protected components and purified ingredients following a strict quality control protocol, leading to a consistent product aspect.

CONSISTENT & PRODUCTIVE

Suitable for very short and productive cycles in any condition, allowing rotifer generations to be re-inoculated up to 50 consecutive runs.

ECONOMIC

Cost-effective and easy to use.

Packaging / Storage

S.parkle is available in cardboard boxes of 4 x 2,5 kg alufoil bags.

The shelf life is 12 months from date of manufacture. The product should be stored in a cool, dry place (max. 10°C). Once opened, it should be used within one month, kept well closed and stored in a refrigerator.

Do not freeze.

Typical composition

Moisture	5 %
Crude protein	39 %
Crude ash	5 %
Crude lipids	12 %
Crude fiber	1 %
Phosphorus	1 %
Vitamin A	500,000 IU/kg
Vitamin D3	50,000 IU/kg
Vitamin E	3,600 mg/kg
Vitamin C	4,000 mg/kg
Antioxidants	Ethoxyquin, BHA, propylgallate
Σω3 HUFA	17 mg/g dwt
DHA/EPA	3