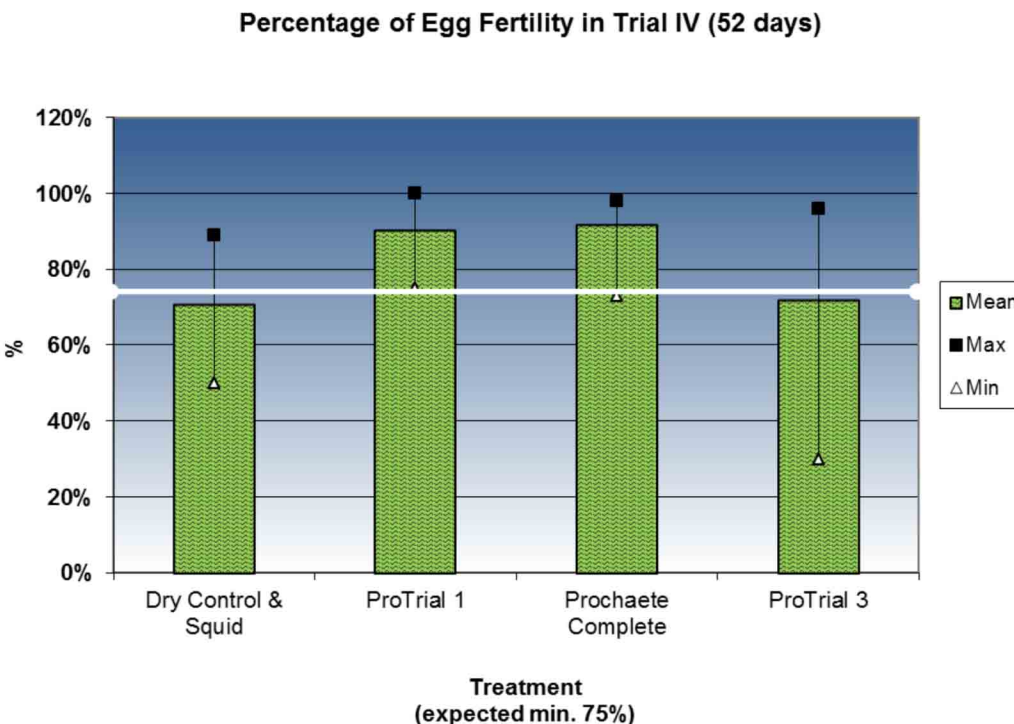




ProChaete Complete Maturation Feed™ is a dry maturation feed for ALL shrimp broodstock that is offered in a variety of tub or vac-pack alternatives. Through extensive trials in the field within commercial farming operations, this feed has been proven to ensure successful maturation, spawning and offspring quality of shrimp without fresh diet supplementation and without the inclusion of fish meal.

Our success in this area is due to our ability to process farmed polychaete in an innovative way and in combination with other tested ingredients, to produce a complete maturation feed that provides the correct balance of nutrients to allow all shrimp broodstock to mature in a safe and controlled way. This improves the quality of both eggs and sperm resulting in higher numbers of nauplii of good quality, as can be seen in the accompanying graphs and tables.



SUMMARY OF TRIAL IV - TESTING MATURATION FEEDS OVER 52 DAYS

% Mating	Dry Control & Squid	ProTrial 1	Prochaete Complete	ProTrial 3
Mean	7%	11%	15%	10%
Max	14%	24%	28%	18%
Min	2%	0%	2%	0%

% Fertility	Dry Control & Squid	ProTrial 1	Prochaete Complete	ProTrial 3
Mean	71%	90%	92%	72%
Max	89%	100%	98%	96%
Min	50%	75%	73%	30%

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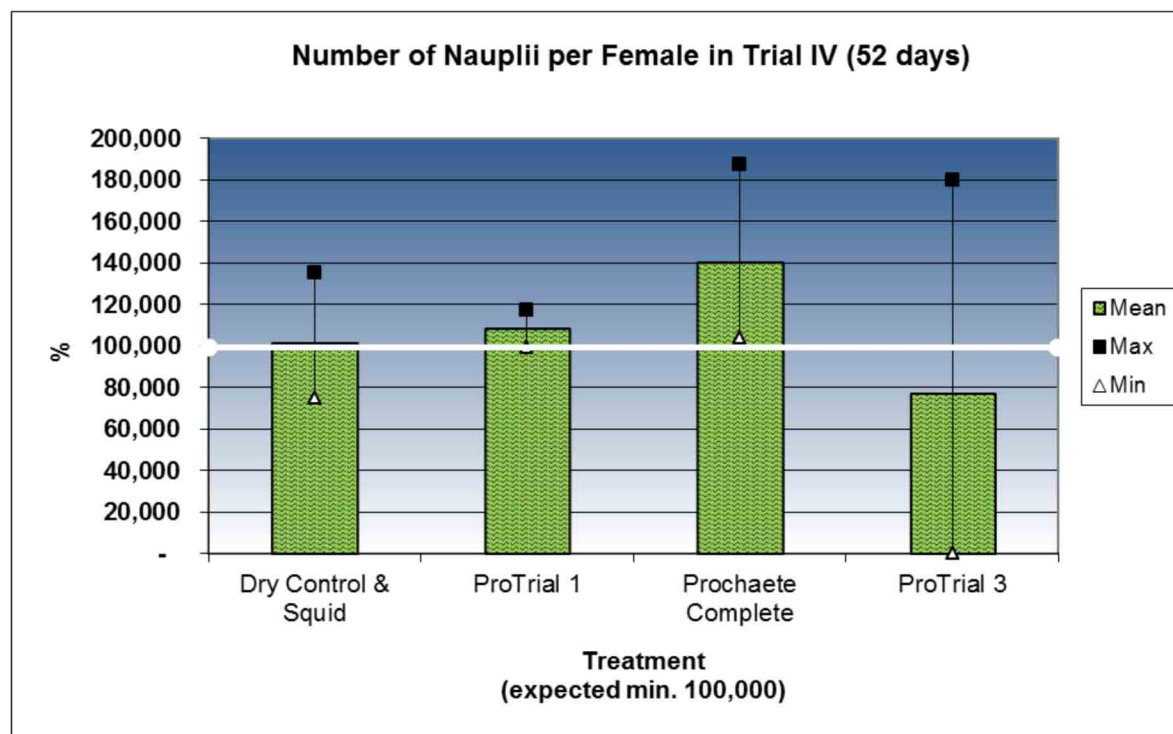
Email: contactus@cpacasia.com Phone: +66 38 570 966/9 Fax: +66 38 570 970

Website: www.cpacanimalhealth.com



ProChaete Innovations Ltd tests all feeds produced in commercial farming situations and compares its own feeds against each other as well as against other popular feeds readily available to farms. In Trial IV ProChaete Complete Maturation Feed™ was compared to the best of our own feeds developed to date as well as a popular Dry Diet with additional Squid supplement.

From the datasets shown, it can be seen that ProChaete Complete Maturation Feed™ compared favourably against own brand and control feed in terms of expected mating numbers, egg fertility, numbers of nauplii per female and reduced deformity - all round performance that met and exceeded farm expectations.



SUMMARY OF TRIAL IV - TESTING MATURATION FEEDS OVER 52 DAYS

Nauplii per female	Dry Control & Squid	ProTrial 1	Prochaete Complete	ProTrial 3
Mean	101,573	108,727	140,409	77,309
Max	135,000	117,000	187,500	180,000
Min	75,000	99,000	104,000	-

% Deformity (Max. 6%)	Dry Control & Squid	ProTrial 1	Prochaete Complete	ProTrial 3
Mean	6%	1%	5%	7%
Max	10%	4%	8%	10%
Min	3%	1%	3%	4%

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Typical Analysis of ProChaete Complete Maturation Feed

ProChaete Complete Maturation Feed™ advantages over dry diets (with/without diet supplements):

- *Reliable supply and consistent quality*
- *Enhanced biosecurity with reduced possibilities of introduction of diseases*
- *Short production lead-time and ready to use immediately*
- *Reduced leaching and water pollution so promoting visual evaluation of the females*
- *Strong attractability offering higher consumption rates*
- *Ease in addition further additives to create bespoke diets*
- *Reduction in feeding cost of broodstock of approx. 30-50% leading to reduced cost of nauplii production*
- *Product does not need diet supplementation*
- *Ease of storage and transport with improved shelf-life through carefully designed packaging*

NUTRIENTS	
Crude Protein	43.0%
Crude Lipid	10.6%
Fibre	3.3%
Ash	9.4%
Moisture	10%(max)
Phosphorus	1.4%

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Following ProChaete Complete Maturation Feed™ directions for the use of the product will:

- Improve feed conversion
- Reduce feed wastage
- Maintain healthy environmental conditions
- Improve spawning and nauplii production
- Lengthen product shelf -life
- Reduce cost of production



Product Directions

- | | |
|---|---|
| 1 | This product has been designed to feed adult shrimps from 2-4 weeks prior to beginning of the broodstock's productive cycle to the end. |
| 2 | It is important to establish a periodic evaluation of population, health condition and average weight of the broodstock in order to determine an accurate feeding regime for the biomass managed in each tank. |
| 3 | The initial daily feeding rate recommended for the dry feed is equivalent to 5% in wet weight basis of the biomass by maturation tank. It has been proven that the shrimps require approximately one week to adapt fully to the feed change. Variations in the water quality, as well as physiological changes related with the moult and/or unilateral ablation of females can affect the food consumption considerably. Therefore we recommend adjusting the feeding rate periodically according to consumption within a range from the 3 to 7% on a wet weight basis of the biomass of shrimp. |
| 4 | The feed can be directly applied by hand on to the bottom of the maturation tank in open systems, while for recirculation systems with self-cleaning tanks it would be convenient to use feeding trays. |
| 5 | We recommend distributing the daily feed in 4-6 equal rations or portions in a period of 24 hours. |

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COMPLETE SHRIMP MATURATION FEEDS

Data sheet


Authorized Dealer

Further Information

Packaging

ProChaete Complete Maturation Feed is packaged in 5 x 1kg sealed foil bags inside tamperproof re-sealable plastic buckets.

Storage Directions

For optimum use, Prochaete Complete Maturation Feed should be stored in a cool dry place.
Once opened, refrigerate and use within six weeks.

Ingredients

Squid, Polychaete, Cereals, Dried Seaweed, , Brewer's Yeast, Sodium Alginate, Fish Oil, Lecithin, Spirulina

Minerals

Zinc Sulphate, Ferrous Sulphate, Copper Chloride, Manganese Sulphate, Calcium Iodate, Cobalt Chloride, Selenium Sulphate

Vitamins

Vitamin A 12,000 IU/kg, Vitamin D3 4,000 IU/kg, Choline 800mg/kg, Vitamin E 750mg/kg, Stabilised Vitamin C, Niacin, Riboflavin, Pyrodoxine, Thiamine, Vitamin K, Folic Acid, Biotin, Cyanocobalamine, Carotenoid Pigments – Astaxanthin

Preservatives

Mixed tocopherols and mould inhibitors, E280 and E281

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Sales and Technical support, please contact:

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Or visit our website at www.cpacanimalhealth.com