



Aquastem™ V

An immune booster



Aquastem™ V is a unique algae based immunostimulant, enriched with vitamin C to improve non-specific immunity and disease resistance in aquatic species.

FEATURES

- Algal source of linear 1,3 - beta glucan enriched with vitamin C
- Ideal particle size
- Highly bioavailable

BENEFITS

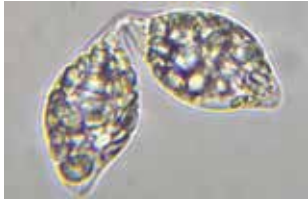
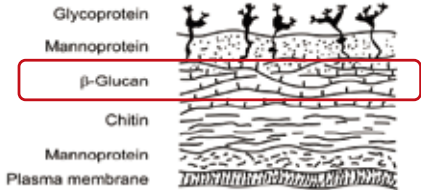
- Enhances immunity
- Improves the survival rate
- Improves growth and feed conversion

INSTRUCTIONS FOR USE

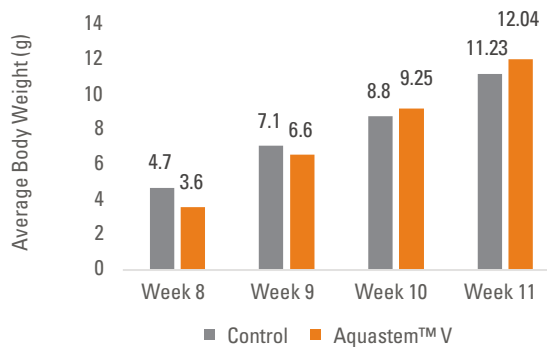
- 5 -10 g/kg of feed
- Use suitable binders
- For more information, consult a Kemin AquaScience™ technical expert

Beta glucan is a polymer (chain) of glucose molecules, similar to starch and cellulose. Beta glucan can be produced by yeast, fungi (mushroom), grains (oat/barley), bacteria and algae (Aquastem™ V).

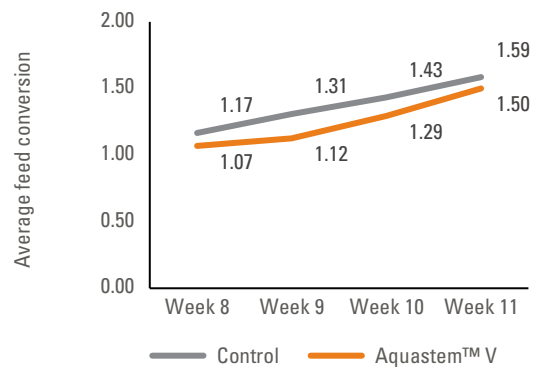
ALGAE BETA GLUCAN vs YEAST BETA GLUCAN¹

	ALGAE BETA GLUCAN (AQUASTEM™ V)	YEAST BETA GLUCAN
Different forms of beta glucan		
Percent of beta glucan in raw material	> 50%	5% - 15%
Form of beta glucan	Over 90% as linear 1,3 form	Less than 80% as linear 1,3, lots of 1,6 side branches
Bio-availability	Active in dried algae	Extraction required
Particle size	Ideal: small 1 - 3 micron	Large and variable, > 10 micron

Effect of Aquastem™ V on body weight of the shrimp, *L. vannamei*²



Effect of Aquastem™ V on feed conversion of the shrimp, *L. vannamei*²



1. Journal of Hematology & Oncology 2009, 2:25

2. Kemin Internal Document, 18-00048