

Novel Ingredients





“Traditional Salmonid Feed Composition”

Fish Oil

Fish Meal

Wheat

“Today’s Salmonid Feeds”



Poultry meal	Guar meal	Soybean oil
Sunflower meal	Algal meal	Rice
Wheat	Canola oil	Soy
Tapioca starch	Camelina oil	Fish meal
Blood meal		Distillers grains
Maize concentrate		Additional ingredients
Vitamins		Poultry oil
Pigment	Minerals	Microingredients
Corn	Lupin	Faba bean
Potato starch	Krill meal	Insect meal
Fish oil	Algal oil	Linseed oil

Up to 50 ingredients
per feed

Viability of Fish Feed Ingredients



Cost



Is it permitted for the intended use?



Digestibility



Quality Consistency



Sustainability



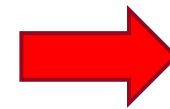
Customer Perception



Physical Parameters

Insect Meal

Fly larvae and resulting meal



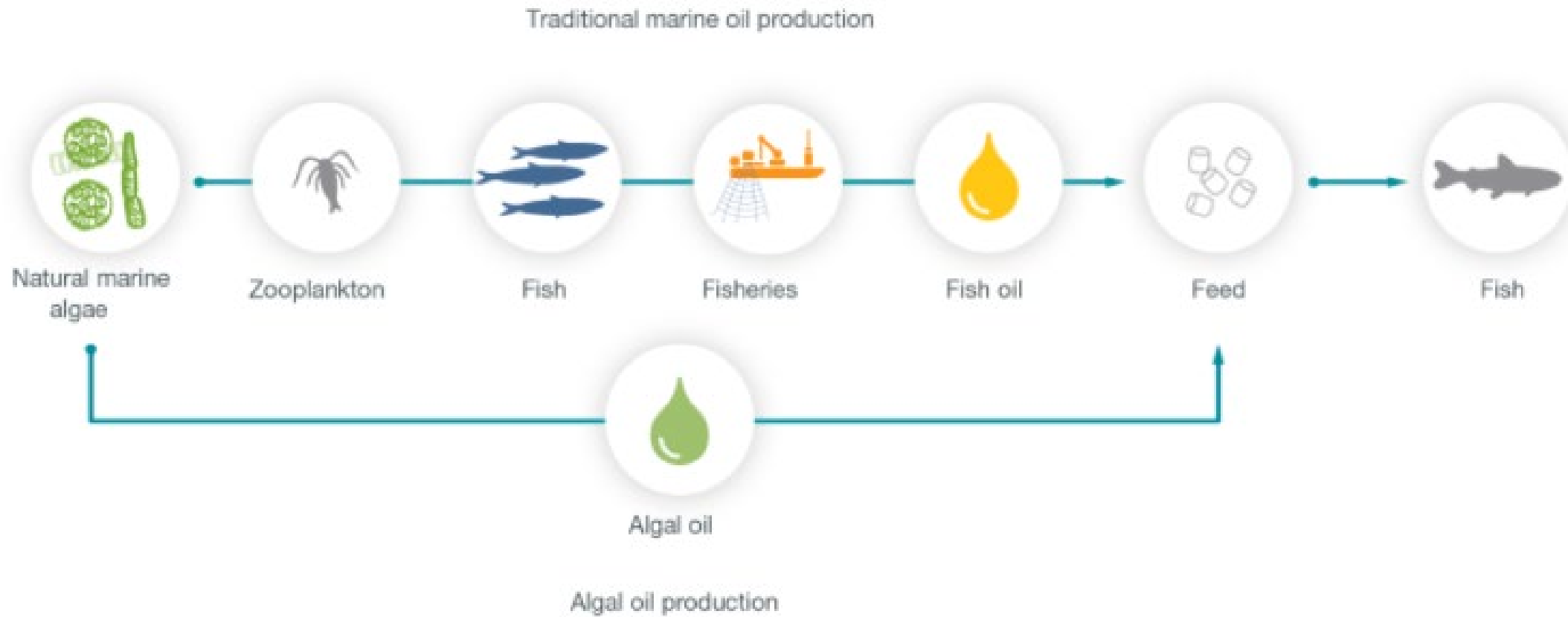
Sustainability Story



Natural Insect-Rearing Process

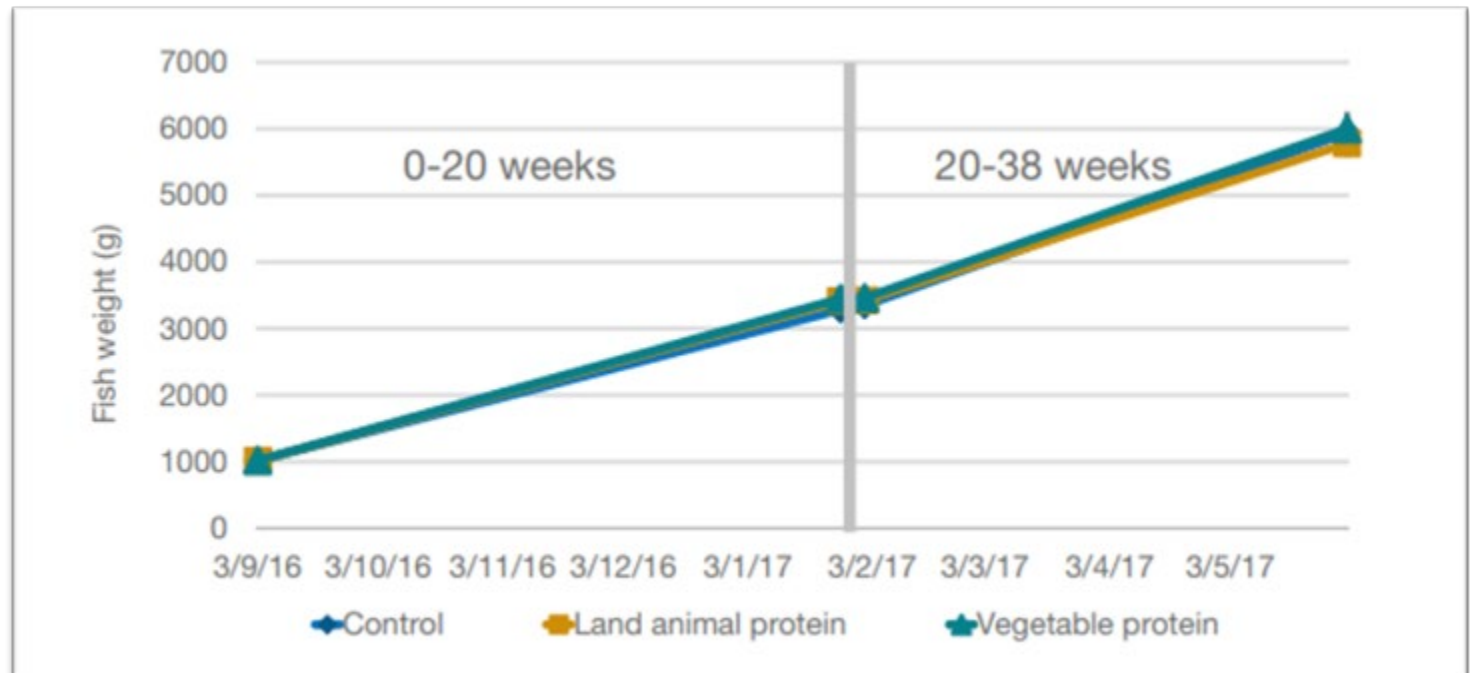


Algae Oil



EPA & DHA ALTERNATIVES

- Skretting has extensive experience replacing marine ingredients with Algae Oil in commercial salmon diets
- R&D Infinity Trial: Excellent performance results



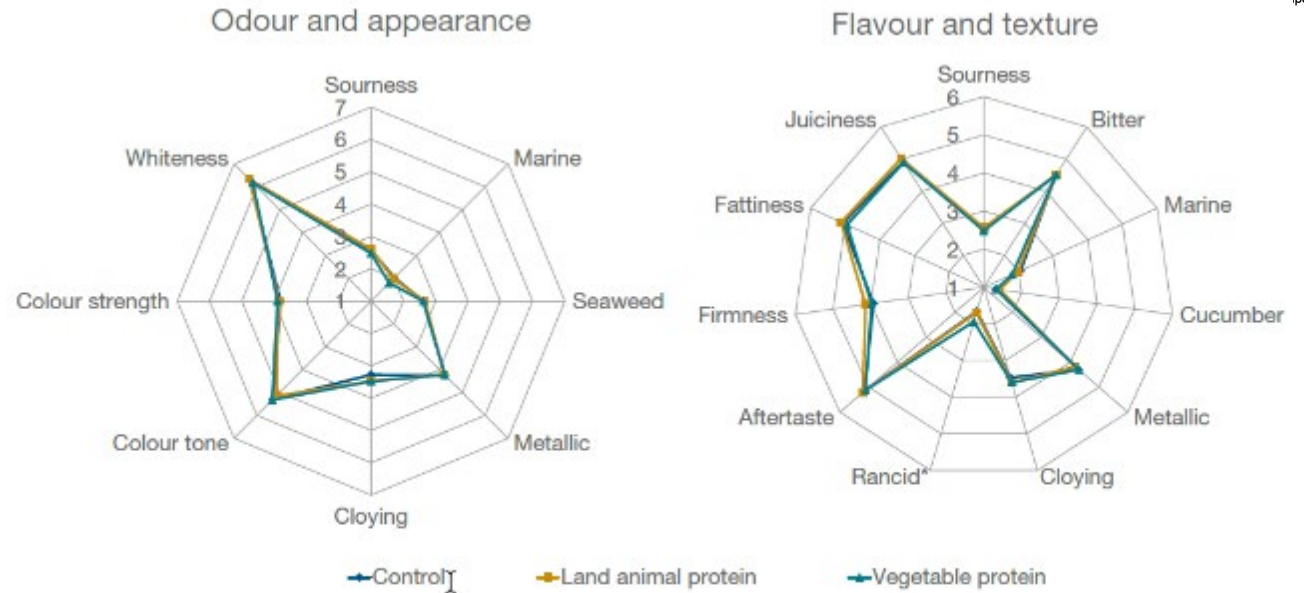


Figure 4. Sensory evaluation of cooked salmon fed 2 different no FM-no FO diet and an FM-FO control diet for 38 weeks.

Conclusions

Atlantic salmon can be fed diet without FM and FO for most of their grow-out period in sea without negative impact on performance and product sensory characteristics