

**protec**™

SKRETTING
a Nutreco company 



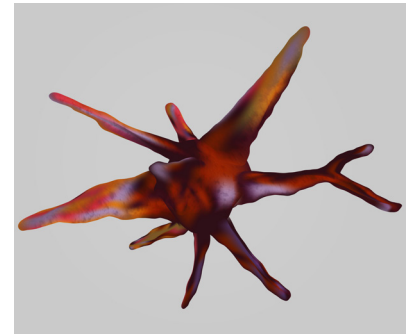
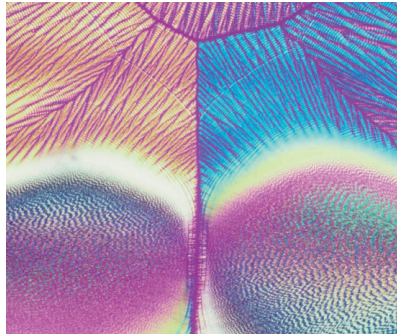
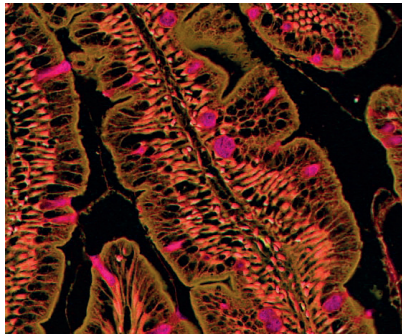
Protec™ is Skretting's prime functional feed for farmed fish. Protec™ helps to reinforce skin, gut and gills, it supports the immune systems and optimizes the balance between fish and environment.



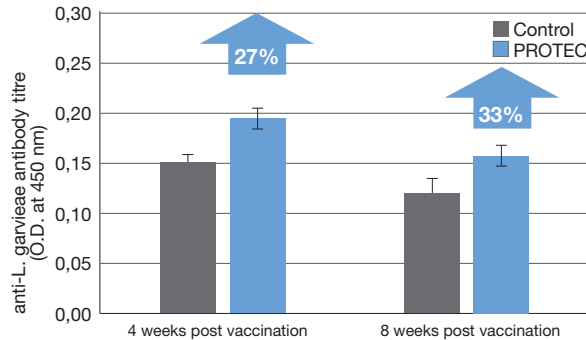
Why Protec™?

Nutrition plays a major role in promoting and supporting animal health. Skretting has always been on the frontline in the development of innovative nutritional solutions to this objective.

Protec™ is based on a proprietary mix of different functional ingredients developed by Skretting ARC supported by a specific feed formulation: a complete solution validated through research and field trials.



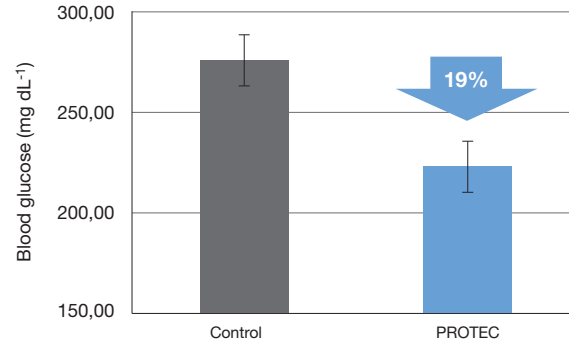
Vaccination is an essential tool in any health management strategy. Protec™ enhances vaccination response, for expected longer protection.



Response to vaccination against *Lactococcus garvieae* in Rainbow trout

Level of anti-*Lactococcus garvieae* immunoglobulins was higher in trout fed Protec™ both at 4 and 8 weeks after vaccination.

Stressful events such as stocking, transfer and vaccinations have a negative impact on fish. Protec™ reduces these impacts.



Secondary stress parameters in Gilthead seabream

Blood lactate and glucose levels after acute stress increase parallel to cortisol (stress hormone). Seabream fed Protec™ showed lower values of these stress parameters.

Direction for use Trout:

- Vaccination: 4 weeks before and 2 weeks after
- Transfer from hatchery to pre-growing units: 4 weeks before and 2 weeks after
- Environmental stress and handling (grading, transport...): 2 weeks before and 2 weeks after
- During viral, bacterial or parasitic disease outbreaks: 4 weeks
- After spawning: 4 weeks

Direction for use Seabass:

- Vaccination: 2 weeks before and 2 weeks after
- Stocking: 2 weeks before and 2 weeks after
- In preparation for seasonal changes in autumn at temperatures <14°C: 4 weeks in spring at temperatures >14°C: 4 weeks
- During viral, bacterial or parasitic disease outbreaks: 4 weeks

Direction for use Seabream:

- Stocking: 2 weeks before and 2 weeks after
- In preparation and during the cold season: autumn and spring at temperature <18-20°C
- In preparation to stressful events for 4 weeks
- During viral, bacterial or parasitic disease outbreaks: 4 weeks



Skretting is a world leading producer and supplier of feed for farmed fish and shrimp. Total annual production of high quality feeds is over 2 million tonnes. Skretting has operating companies on five continents to produce and deliver feeds from hatching to harvest for more than 60 species of farmed fish and shrimp. Our purpose is #FeedingTheFuture.

www.skretting.it

