

Prosea

Increase your piglets weaned per sow per year

Celtic Sea Minerals presents Prosea which is a unique seaweed formulation containing marine minerals that has a positive impact on sow and piglet performance and increases the longevity and productive life of sows. Prosea improves sow herd health through reduced systemic inflammation, reduced insulin resistance and improved tissue functioning.

Increasing sow output while reducing sow mortality are key parameters for producers who want to see improvements in pig unit performance. Sow mortality has increased in recent years. (National Hog Farmer, 2021) Gestational insulin resistance (diabetes) is the underlying cause in many factors that increase sow and piglet mortality (Kemp et al., 1996; Cheng et al., 2019; Yang et al., 2021).

Shorter Farrowing Time

Farrowing is a stressful stage for sows. Prosea has been shown to reduce farrowing time and result in a quicker expulsion of the placenta. In addition, Prosea has also been shown to have a calming effect and elected behavioural changes in the sow.

Piglets

When Prosea is fed to sows, it has been shown to enhance piglet survivability at birth and improve piglet growth, average weaning weight, and litter weight gain at weaning. Prosea also reduces piglet mortality during lactation.

Sows

Prosea increases overall sow lifetime productivity. It has a positive effect on P2 measurements and BCS in sows, while protecting the piglet from metabolic inflammation associated with insulin resistance in the dam. Prosea has a positive effect on tissue functioning, strengthenen the gut barrier and reducing the occurrence of pelvic organ prolapses.

Reduction in farrowing time of

20 minutes*

0.5 extra piglets born alive**

1.6 extra piglets weaned per sow per year**

* Upddhaya et al. evaluated the effects of Prosea in the basal diet as a partial replacement of limestone for four successive parities in the performance of sows and their litters.

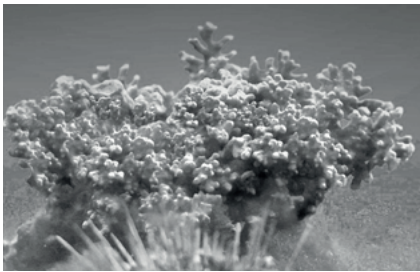
**A meta-analysis was performed using 9 studies and a total of 2,621 control fed sows and 2,833 Prosea fed sows.

Prosea is a unique, seaweed formulation containing marine minerals, sustainably sourced from the nutrient rich North Atlantic waters. It contains high levels of Calcium and Magnesium as well as the marine bioactives Fucooidan and Laminarin. Fucooidan and Laminarin are derived from the brown seaweed *Ascophyllum Nodosum* and both have immune modulating properties.

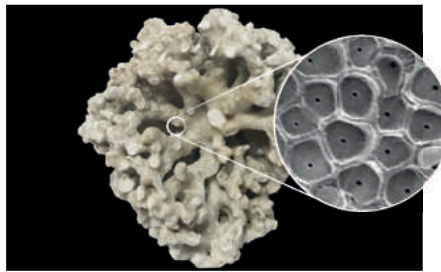
(O'Doherty et al., 2021, Bouwhuis et al., 2017).

Prosea Triple Mode of Action

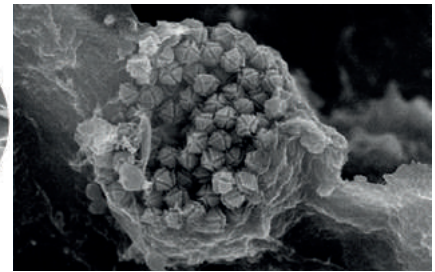
- 1. Prosea reduces inflammation and enhances immunity** reducing the inappropriate, systemic inflammatory response. This carries over to the piglets, priming their immune system and leading to a better defense to challenges around weaning.
- 2. Prosea improves glucose metabolism** by reducing insulin resistance, improving glucose uptake in umbilical cord and placenta and improving overall glucose tolerance.
- 3. Prosea increases tissue functioning**, improving tissue and muscle functioning to reduce leaky gut, farrowing time and pelvic organ prolapse.



Natural source of minerals



Increased bioavailability



Bound in marine polysaccharides

Prosea should be fed to sows during gestation and lactation and should be formulated into the diet at 0.4%.

Who are Celtic Sea Minerals?

Celtic Sea Minerals is a global leader in natural, marine phytonutrients with specialist expertise in seaweed. Our nutritional solutions deliver better animal welfare and productivity for livestock producers. We were founded in 1993 and have published over 50 peer reviewed papers in high end scientific journals.

We are part of the Marigot Group of companies whose core business involves the production and development of naturally derived marine ingredients for the enhancement of animal and human health. We currently export from Ireland to over 52 countries and source our seaweed from the pristine waters of the North Atlantic.

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