



**CELTIC SEA
MINERALS**

Celtical

Improving flock performance while reducing production costs and improving animal health

Celtic Sea Minerals presents Celtical which is a unique, sustainable, plant based marine mineral complex.

Reducing production costs and improving animal health which is measured by the Poultry Efficiency Factor (PEF) is a key challenge for poultry producers.

Celtical delivers a high return on investment with an increase in poultry efficiency factor (PEF) of 5.6%.

Meta analysis over 6 studies

Based on six studies, Celtical improves Poultry Efficiency Factor by 5.6%. Two treatments were used: 1) Control, as per industry standard, and 2) Treatment, with reduced calcium level and Celtical inclusion. The Celtical treatment groups were based on the recommendations for Celtical inclusion.

Of the PEF, Celtical improved the factors:

Liveability by
+1.04%

Bodyweight by
+35g

FCR by
-4.0 points

Total of

19.6 points extra

Celtical - The Science of Feed Efficiency
www.celticseaminerals.com



5.6%
improvement
in flock
performance

Celtical is a unique sustainable plant-based marine mineral complex, sustainably sourced from seaweeds harvested from the nutrient rich North Atlantic waters. It contains high amounts of marine calcium and magnesium alongside 72 trace minerals. Celtical's marine minerals are held within a unique polysaccharide complex which reduces its interaction with phosphorus for best health and performance.

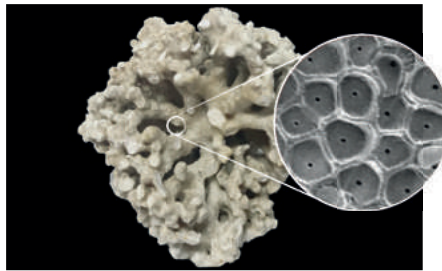
Celtical Dual Mode of Action

1. Celtical removes interactions by reducing calcium interactions. Marine polysaccharide bound marine calcium reduces the negative interaction with available phosphorus, increasing bioavailability of both minerals. This improves FCR.

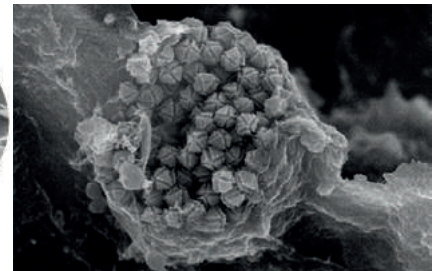
2. Celtical strengthens the gut barrier and reduces leaky gut, as well as working anti-inflammatory. This improves general health and reduces mortality.



Natural source of minerals



Increased bioavailability



Bound in marine polysaccharides

Recommended Inclusion

Add 2.5 kg/ per tonne in the starter and grower phases. Add 2 kg/per tonne in the finisher phase. Formulate the product into the diet and reduce total calcium levels by 20%.

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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Pioneering
marine minerals
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