

HUMISTART

PHYSIOPRO

PHYSIO PRO



PLANT NUTRITION

Soil conditioner

TIMAC AGRO TECHNOLOGY

Our patented formulas are derived from nearly 60 years of research and development in plant extract technology. Through precise methods, our extracts are evaluated for their specific effects at each stage of crop development. By enriching selected extracts with macro- and micronutrients, we create bionutritional formulas that meet the ever-changing needs of the crop. Better yield and quality benefit our customers and are the

result of improved emergence, vegetative growth, and reproductive performance.

As a company, our mission is to improve agriculture by focusing on four major areas of service to growers:

- Relentless innovation
- Flexible manufacturing
- Optimized applications
- Partners in the field

FEATURES

PHYSIOPRO is a soil conditioner proven to increase microbial activity, provide labile calcium, and improve breakdown of manure and (or) stubble into plant available nutrients. As a homogeneous granule, it supplies several key nutrients, such as nitrogen, calcium, sulfur, magnesium, and trace amounts of boron, iron, and zinc. PHYSIOPRO works well on manured fields, orchards, vineyards, vegetables, fruits, and in both no-till and conventional tillage. It can be used alone or blended with other granular fertilizers.

KEY BENEFITS

- **Calcimer** ingredient provides labile calcium that helps improve soil structure and feeds the crop
- Delivers other critical micronutrients in a homogeneous compound granule
- **PHYSIOPRO** complex (our patented soil amendment) increases microbial breakdown of stubble and plant residues into plant available nutrients

APPLICATION

Broadcast application in no-till or manured fields will often call for 100 to 400 lbs/ac. In furrow rates 10-40 lbs/ac. PHYSIOPRO can be blended with fertilizers or applied alone.

Please refer to soil tests and the advice of your TIMAC AGRO ATC for specific recommendations.

PACKAGING SIZE

- 600 kg minibulk tote
- bulk / railcar

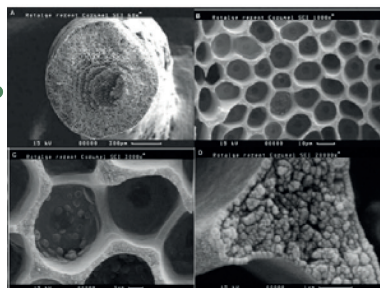




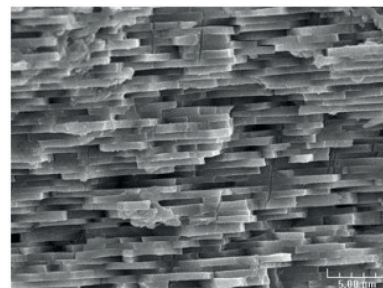
Soil Conditioner

PHYSIOPRO is manufactured using our exclusive marine-based mineral called Calcimer. This highly-soluble material provides quicker release of calcium compared to limestone. This is due to its unique microscopic structure

Higher surface area leads to more nutrient availability



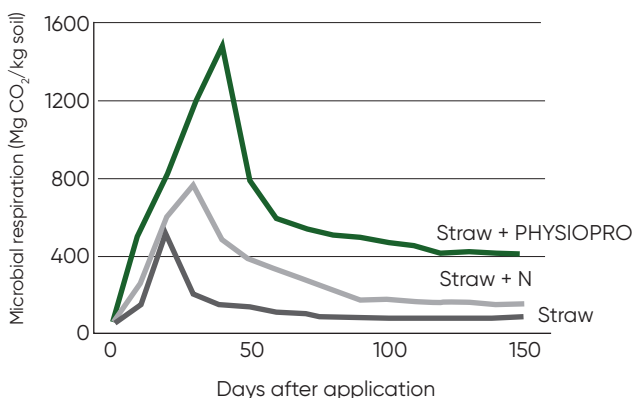
PhysioPRO - Calcimer ingredient



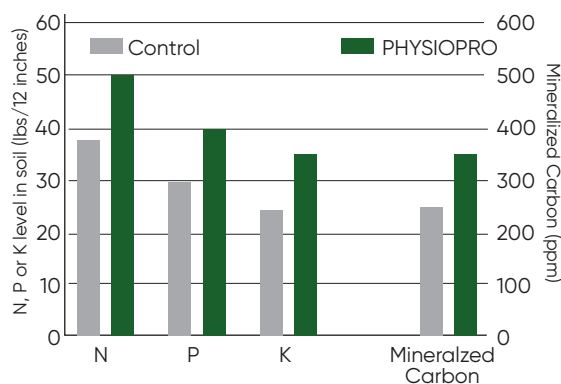
Traditional Calcium carbonate Lime

PHYSIOPRO is the only soil conditioner that enhances microbial breakdown of organic matter into plant-available nutrients.

Effect of PHYSIOPRO on soil microbial respiration



Effect of PhysioPRO on soil nutrient availability



Independent research shows that the **PHYSIOPRO Complex increases microbial respiration** by almost 3 times compared to straw alone. Data shown are averages of 3 replicates of straw-covered soil that was amended with 250 lb/acre of **PHYSIOPRO**.

Source: National Institute of Agronomy, Paris Grignon, Paris, FR, 2004.

In split-field experiments, **PHYSIOPRO** treated areas showed **INCREASED AVAILABILITY OF N, P, K AND MINERALIZED CARBON**. Data shown are averages of 4 replicate samples per area taken in June. **PHYSIOPRO** was spread at a rate of 400 lb/acre 4 months earlier on a silty sand loam, pH = 7.0.

Source: RITMO Labs, Cedex, FR, 2013.

ANALYSIS

Homogenous compound granules contain:

Total Nitrogen (N)	4%
Ammoniacal Nitrogen	4%
Calcium (Ca).....	20%
Magnesium (Mg)	8%
Sulfur (S).....	4%
theoretical salt index.....	6
pH.....	7

Derived from: Marine Calcium Carbonate, Ammonium Sulfate, Zinc Oxide, Calcium Borate, Iron Carbonate.