



PCA3 - Protein Concentrate of Seaweed (fertiliser)

Organic Nitrate manure of 100% seaweed origin

1/ PRESENTATION

The **PCA3** is an organic nitrate manure which origin is 100 % from seaweed.

Used in complement to classical fertilisers, besides the different phases that it contains, the **PCA3** will enhance all the more the value of the added fertilisers.

The **PCA3** is a concentrate of the least washable elements of seaweed, and so, suits perfectly the difficult and intensive conditions of farming. This is particularly true in warm countries and sandy lands.

Phases	Content % of dry material	Advantages
CELLULOSE	40% cellulose matters very rich in polyphloroglucinol	- creation of an organic support - creation of a stable humus - improvement of the retention of water
PROTEINIC	3% of organic nitrogen in the form of amino-acids corresponding to 20% of nitrogenic feeding	- 30 to 40 U of N/ton brought, in other words 60-80 mineral units - long lasting (1 year) and sustained protein - stimulation of the biological activities and of the microbial life
MINERAL	20% of mineral, in which: 3% CaO 0,3% MgO 1,6% S	- Ca ++ and Mg ++ ions enhance the grain maturation and photosynthesis, and so coming up faster
ALGINATE	10% in flake form	- natural organic colloid, soil restructurant grain fixative - improve the retention of water and fertilizing elements
LIPID	3%: the PCA3 is rich in growth substances (lipooligosaccharids - sulphates)	
TRACE ELEMENTS		- biological and chemical properties enhanced - nutritive stimulation - improvement of the plant strength

2. COMPOSITION

ORGANIC MATTERS:	#80%	MINERAL MATTERS		TRACE ELEMENTS	
Cellulose	40%	CaO	3%	Mn	40 ppm
Proteins	20%	Sulphates	1%	Zn	30 ppm
Alginates	12%	Na	1%	Cu	15 ppm
Fatty matters	3,5%	P2O5	0,4%	B	10 ppm
		Fe	0,4%	Ni	10 ppm
		MgO	0,3%	Co	5 ppm
		K2O	0,1%	Se	2 ppm

3. ADVANTAGES

- Improves yields and earliness
- Balances the microbial life of the soil
- Improves the retention of nitrate
- Stimulates the plant natural defences thanks to trace-saccharids (great efficiency on leguminous plants)



**PRODUCT INFO
& DATASHEET**

4. USING RECOMMENDATIONS

Presented in powder form **PCA3** is used:

1) In the soil: at the dose of 0,5 to 1 Ton/Ha

2) As a culture support: at the dose of 10 Kg/m³ of substratum

It permits to retain fertilizing elements and to well develop the roots.