



Knowledge grows

BOLIFOR® CNF

Calcium nitrate -feed grade – Monogastrics

BOLIFOR® CNF is an inorganic feed material with a low level of undesirable elements well below that stipulated by EU feed registration.

BOLIFOR® CNF appears as white prills with a consistent quality. The product is highly soluble in water.

Identification

Chemical formula:

$5\text{Ca}(\text{NO}_3)_2 \times \text{NH}_4\text{NO}_3 \times 10\text{H}_2\text{O}$

CAS No.: 15245-12-2

Sales specification

Product Properties	Declared value	Min	Max
Total Nitrogen (N)	15.5%	15.1%	
Total Calcium (Ca)	19%	18.8%	
$\text{Ca}(\text{NO}_3)_2$	77.5 %		
NH_4NO_3	6.29%		8.57%
NO_3	63.6%		
pH	6.5	5.7	7.3
Water insoluble >3µm	0.035%		0.05%
Particle form	Prills		
Granulometry (ISO)			
>2,0mm			17%
1,0-2,0mm		78%	
<1,0mm			5%
Bulk density kg/m ³	1100 +/- 60		

Special Advantages

The innovative production route of BOLIFOR® CNF used by Yara guarantees the most energy efficient way of manufacturing calcium nitrate as well as a lower carbon footprint compared to conventional production processes. BOLIFOR® CNF has minimum amount of undesirable substances, consistently.

When administered to sows during gestation, BOLIFOR® CNF is transformed into nitric oxide. Nitric oxide is a powerful blood flow enhancer, which improves oxygen and nutrient exchange to the foetuses and stimulates placental growth. This results in lower preweaning mortality.

BOLIFOR® CNF has shown to decrease the risk of post-parturient dysgalactia syndrome (PDS) by promoting a healthy gut flora in the sow. A healthy sow's gut microflora will positively influence the instauration of a balanced microflora in the new born piglets so that the litter gets off to a good start.

Besides, BOLIFOR® CNF has been shown to reduce sow's body weight loss during lactation, preparing the sow for the next cycle.



Quality check references

Calcium (Ca) extraction	Comparable with Regulation (EC) No 2003/2003 method 8.1
Calcium (Ca) determination	Comparable with Directive 71/250/EEC method 3
Nitrogen (N)	Comparable with EU 2003/2003 N-Total-EU 2.2
pH	10% solution, in water
Moisture (mechanical free water)	Karl Fischer method

Undesirable substances

Undesirable substances	Standard specification	BOLIFOR® MAP	Method of analysis
Fluorine (F)	Max. 2 g/kg	< 0.15 g/kg	Dest. and ISE
Arsenic (As)	Max.10 mg/kg	< 2 mg/kg	ICP-MS
Cadmium (Cd)	Max. 10 mg/kg	< 2 mg/kg	ICP-MS
Lead (Pb)	Max. 15 mg/kg	< 10 mg/kg	ICP-MS
Mercury (Hg)	Max. 0.1 mg/kg	< 0.1 mg/kg	CV-AFS
Dioxins (PCDD/F(BEQ))	Max. 0.75 ng/kg	< 0.75 ng/kg	EC reg 589/2014 and 709/2014
Dioxins + dioxin-like PCBs (PCDD/F and dl PCBs(BEQ))	Max. 1.0 ng/kg	< 1.0 ng/kg	EC reg 589/2014 and 709/2014

*Method of Test: Method 3.2 – EC Regulation No: 2003/2003/EC.

Direction for use

BOLIFOR® CNF is recommended to improve the reproductive performance of gestating and lactating sows. It is recommended not to exceed 1% inclusion rate. Consultation with an animal nutritionist for adjusting the dose prior to utilization is recommended.

Classification, labelling and packaging

The product is not classified as hazardous according to EU regulations. Labelling conforms to Regulation (EC) No 767/2009 of the European Parliament and of the Council and to Commission Regulation (EU) 68/2013.

Packaging available in 25, 600 and 1200 kg bags and bulk.

Handling and storage

BOLIFOR® CNF should be stored indoors protected from sun light in a dry and cool place in properly sealed packaging. When handled and stored according to instructions the shelf life is 3 years from date of production

Transport and transport regulation

Transported on road, rail and by sea. Not classified as dangerous goods.

Legal Notice

Yara Animal Nutrition
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Our production network is certified according to Good Manufacturing Practice - GMP+

The information above is intended to serve as guidelines and does not constitute a guarantee. We reserve the right to make changes. Valid from 2021-04-01.

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