



## PRODUCT INFORMATION

**NITROS** is a concentrated biological inoculum formulated with broad spectrum, beneficial bacillus and Trichoderma fungi species. **NITROS** is known as a Plant Growth Promoting Rhizobacteria (PGPR). This inoculum provides more than traditional plant nutrient uptake by promoting healthy soil biofilm on strategic root and plant surfaces. These AGBIOFILM® layers become strategic exchanges for nutrient flow and relief of crop stress. Carbon flows efficiently back and forth through these layers carrying nutrient to the plant and sugars back to the microbes. This exchange is the key for effective yield increase **NITROS** is rich in food for microbes. **NITROS** is a liquid substrate to establish AGBIOFILM® ecosystems in the soil, on the leaf surface and the root rhizosphere. **NITROS** applications provide the best means to transport, propagate, and stabilize biological cultures on these AGBIOFILM® surfaces. **NITROS** may stimulate root development, increase plant vigor, yield and quality of produce.

## CONTAINS NON-PLANT FOOD INGREDIENTS

Bacillus amyloiquefaciens .....	1.58x10 <sup>5</sup> cfu/ml
Bacillus licheniformis .....	9.00x10 <sup>4</sup> cfu/ml
Bacillus megaterium .....	2.25x10 <sup>4</sup> cfu/ml
Bacillus pumilus .....	8.10x10 <sup>6</sup> cfu/ml
Bacillus subtilis .....	2.25x10 <sup>6</sup> cfu/ml
Bacillus subtilis var natto .....	1.80x10 <sup>6</sup> cfu/ml
Bacillus simplex .....	6.48x10 <sup>8</sup> cfu/ml
Bacillus firmus .....	4.50x10 <sup>5</sup> cfu/ml
Bacillus polymyxa .....	6.75x10 <sup>4</sup> cfu/ml
Bacillus mucilaginosus .....	9.00x10 <sup>4</sup> cfu/ml
Bifidobacterium animalis .....	6.75x10 <sup>4</sup> cfu/ml
Bifidobacterium bifidum .....	1.35x10 <sup>5</sup> cfu/ml
Bifidobacterium longum .....	1.35x10 <sup>5</sup> cfu/ml
Lactobacillus acidophilus .....	1.13x10 <sup>5</sup> cfu/ml
Lactobacillus buchneri .....	2.70x10 <sup>5</sup> cfu/ml
Lactobacillus casei subsp. casei .....	2.03x10 <sup>5</sup> cfu/ml
Lactobacillus delbrueckii bulgaricus .....	4.50x10 <sup>4</sup> cfu/ml
Saccharomyces cerevisiae .....	1.58x10 <sup>5</sup> cfu/ml
Streptococcus saivarius subsp. thermophilus .....	2.25x10 <sup>6</sup> cfu/ml
Paecilomyces lilacinus .....	2.03x10 <sup>7</sup> cfu/ml
Penicillium bilaiae .....	2.25x10 <sup>7</sup> cfu/ml
Paenibacillus polymyxa .....	2.70x10 <sup>7</sup> cfu/ml
Trichoderma harizanum .....	3.38x10 <sup>6</sup> cfu/ml
Trichoderma koningii .....	4.50x10 <sup>7</sup> cfu/ml
Trichoderma polysporum .....	4.50x10 <sup>7</sup> cfu/ml

**Total Biological Consortium .....** 8.32x10<sup>8</sup> cfu/ml

Derived From: 100% Probiotic Fermentation Media

Expires \_\_\_\_\_ Density (68F) 8.5 lbs. per gallon (U.S.)

Net Volume \_\_\_\_\_ (US Gallons/Liters)

Information regarding the contents and levels of metals in this product is available on the internet at: <http://www.aapfco.org/metals.htm>

## GENERAL INFORMATION

MADE IN THE USA  
 Biorem Inc.  
 P.O. Box 1801,  
 Idaho Falls, ID 83403  
 208-552-1500  
 VISIT US ON THE WEB:  
[www.pharmgrade.com](http://www.pharmgrade.com)



## RECOMMENDED APPLICATION

For use on all agricultural crops and applications. Application and Rates: Apply 3-7 gallon per acre 3-4 times per year on all field crops. This product can also be used in the following ways; foliar, fertigation, root drench, and in furrow at planting. Mix 1.5-2.5oz per gallon of water to apply as a root dip, foliar feed or to pre irrigate rows. Apply 1 gallon of mix per 100 linear feet of row. For more specific application rates contact a local PHARMGRADE representative for more specific rates and instructions.

This product may be mixed with a variety of fertilizers and pesticides. Please call for further directions. Always perform a jar test to ensure compatability.

## HANDLING AND STORAGE

Follow appropriate safety procedures. Skin contact may cause temporary staining. In case of accidental exposure, flush with plenty of water. Product is non-hazardous.

Storage in a cone-bottomed tank to facilitate agitation is recommended. When stored in a cone-bottomed tank, agitate 10 minutes before application or transfer.. When stored in a flat-bottomed tank agitate 30 minutes before application or transfer. Avoid airblast agitation or over the top rotation as foaming will result. If foaming does occur through normal agitation, use an approved defoamer. Agitation is recommended once every four weeks. Agitation prior to production transfer and application is required. Storage for longer than 12 months is not recommended.

CAUTION KEEP OUT OF REACH OF CHILDREN.  
 CONTACT POISON CONTROL IF INGESTED.

## WARRANTY

Biorem Inc. is not responsible for the use or misuse of this product. To the extent allowable by state law, buyer's guarantee limited to label claims.