

# G.R.P.™

## Addressing Animal and Human Health



- D.U.A. G.R.P.™
- Free Choice G.R.P.™



Certified Organic  
by Ecocert SA

## **Company Policy on Glyphosate:**

**In 2013, Advanced Biological Concepts® decided that it is morally wrong to sell glyphosate-contaminated products. The profound and consistent side-effects and symptoms could no longer be ignored.**

**As a result, our products are now Certified Organic or GMO-Free, and Wheat-Free.**

## **Glyphosate Contaminated Feeds**

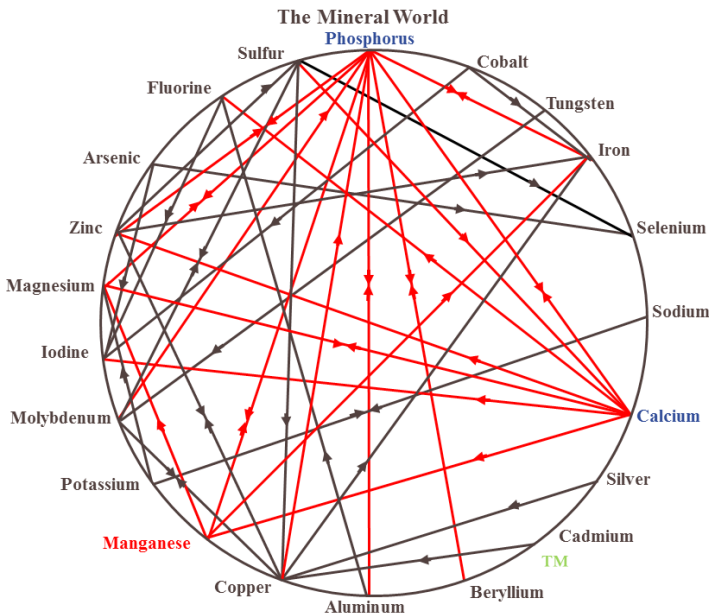
Feed grains today, unless they are certified organic or GMO-free, are contaminated with GMOs and glyphosate. Glyphosate contamination is known to tie-up minerals and to disrupt the normal activity of beneficial intestinal bacteria, resulting in a variety of health problems in animals.

# Is Your Feed Safe?

It used to be that we could generally trust that the grains and forages we fed to our livestock were reasonably safe, if not always of the same nutritional value. That all changed with the advent of GMO technology, and we are now forced to question the safety of almost everything we eat ourselves or feed to our animals. The main culprit is **glyphosate**. Most crops in the U.S. today, including corn, soybeans, beet pulp, molasses, corn syrup and alfalfa, are contaminated with glyphosate residues.

**Glyphosate particularly reduces the availability of Manganese - an element necessary for the function of Calcium and Phosphorus.**

**Calcium and Phosphorus, available and in proper balance, are essential to the utilization of the majority of the other elements in the Mineral World as illustrated in the chart below.**

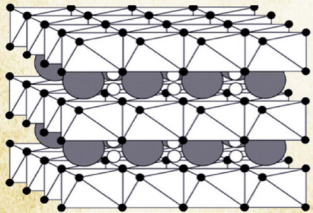


**All ABC Products are Certified Organic or GMO-Free, and Wheat-Free**

The following is a simplified version of the actual mechanism by which Glyphosate affects the availability of Manganese, Calcium and Phosphorus and thus almost all the other elements as well. The actual mechanism is much more complex.

## Glyphosate Matrix

This is a visual concept not the molecular structure.



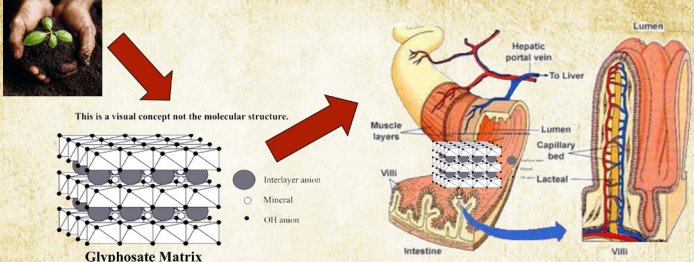
- Interlayer anion
- Mineral
- OH anion

**The inter-layer anion captures the cation mineral, rendering it useless.**

A Chelator Molecule

**Glyphosate ties up:** Manganese (Mn), Potassium (K), Selenium (Se), Magnesium (Mg), Calcium (Ca), Nitrogen (N), Copper (Cu), Nickel (Ni), Iron (Fe), Cobalt (Co), Zinc (Zn)

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This is a visual concept not the molecular structure.

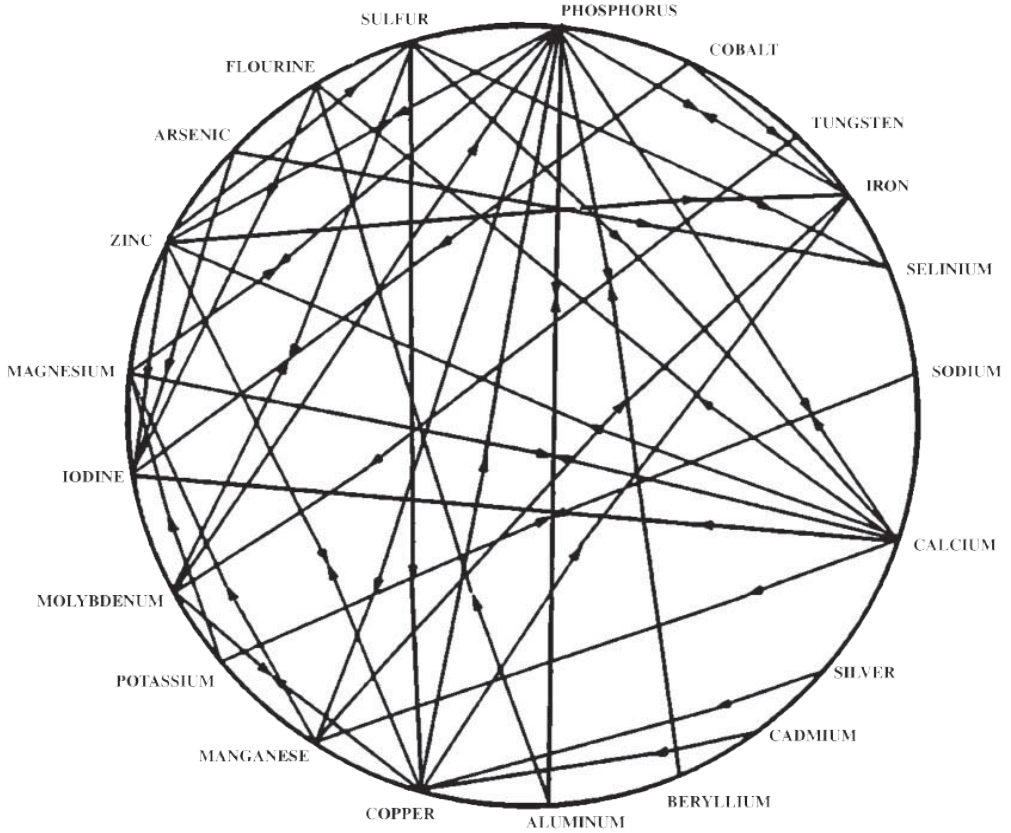
- Interlayer anion
- Mineral
- OH anion

**Glyphosate Matrix**

**When a glyphosate contaminated plant is digested, the glyphosate matrix present in the plant is released into the gut and ties-up (chelates) the minerals in the feed ration.**

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# The Mineral World



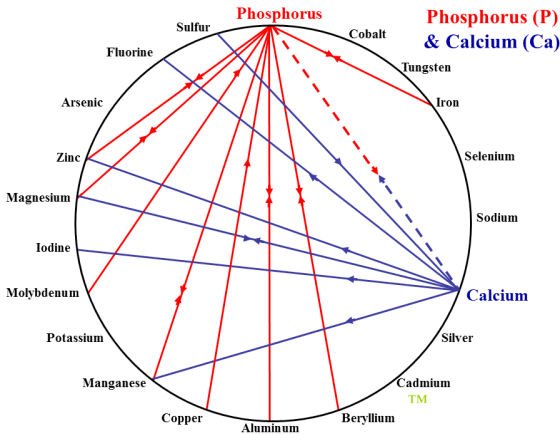
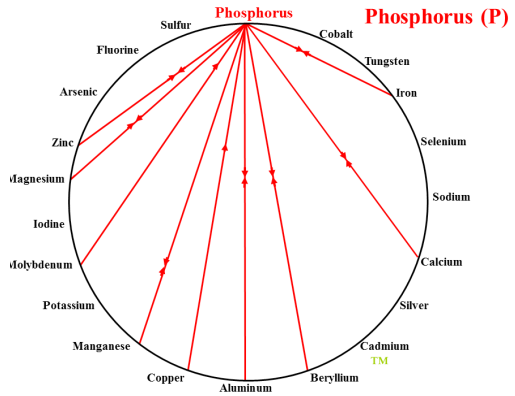
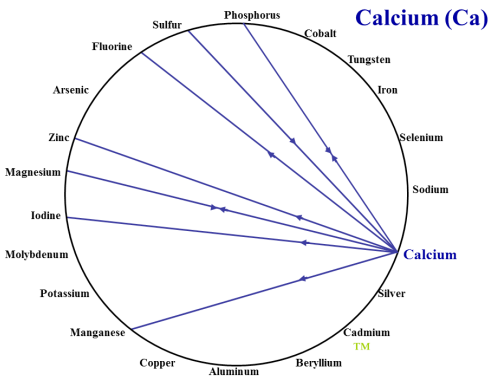
## Relationship Between Minerals for All Livestock

Based on research by several investigators, these mineral relationships appear to be well established.

### How to Interpret the Mineral Wheel:

If a mineral has an arrow pointing to another mineral, it means a deficiency of that mineral or interference with its metabolism may be caused by excesses of the mineral from whence the arrow originates.

# Calcium and Phosphorus are major elements that everyone seems to know about.

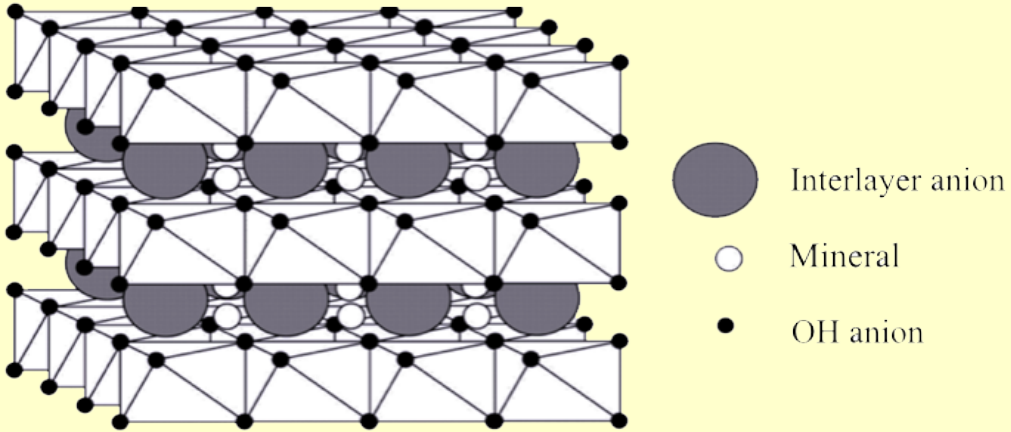


**Together they have an effect on almost all elements in the Mineral World.**

**The following is a simplified version of the actual mechanism by which Glyphosate affects the availability of Manganese, Calcium and Phosphorus and thus almost all the other elements as well. The actual mechanism is much more complex.**

# Glyphosate Matrix

This is a visual concept not the molecular structure.



The inter-layer anion captures the cation mineral rendering it useless.

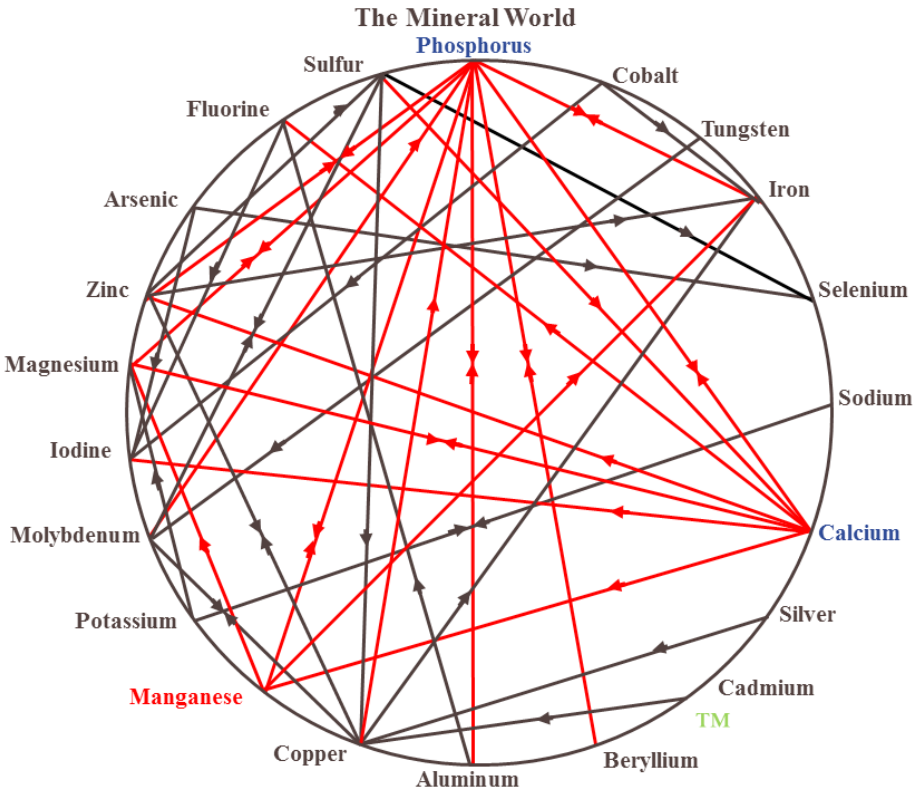
## Glyphosate ties up:

**Manganese (Mn),  
Selenium (Se)  
Calcium (Ca),  
Copper (Cu),  
Iron (Fe),**

**Potassium (K),  
Magnesium (Mg),  
Nitrogen (N),  
Nickel (Ni),  
Cobalt (Co)  
Zinc (Zn)**

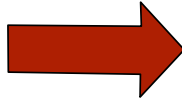


**Glyphosate particularly reduces the availability of **Manganese** - an element necessary for the function of **Calcium and Phosphorus**.**

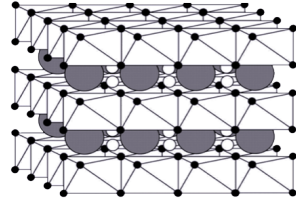


**Calcium and Phosphorus, available and in proper balance, are essential to the utilization of the majority of the other elements in the Mineral World as illustrated in the chart shown above.**

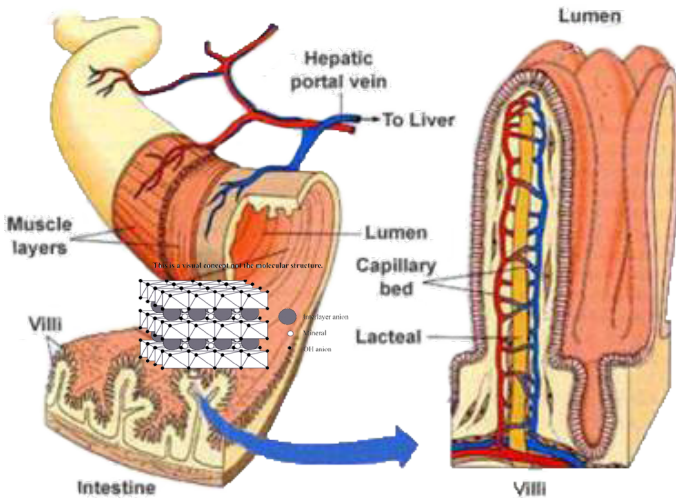
## **Mineral World**



This is a visual concept not the molecular structure.



- Interlayer anion
- Mineral
- OH anion



**When a glyphosate contaminated plant is digested, the glyphosate matrix present in the plant is released into the gut and ties-up (chelates) the minerals in the feed ration.**

- Increases utilization of supplemental minerals.
- Overcomes glyphosate-caused nutrient immobilization.
- Protects the quality of feed and food.



# Free Choice G.R.P.™

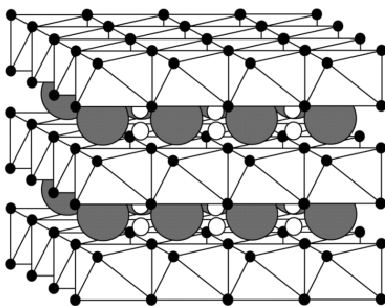


Dietary Nutritional Supplement for all Classes of Ruminants and Equine

## GUARANTEED ANALYSIS

Crude Protein	(min)	-----	7.0 %
Crude Fat	(min)	-----	2.5 %
Crude Fiber	(max)	-----	17.0 %
Acid Detergent Fiber (ADF)	(max)	-----	30.0 %
Calcium (Ca)	(min)	-----	4.0 %
Calcium (Ca)	(max)	-----	4.5 %
Phosphorus (P)	(min)	-----	0.8 %
Sodium (Na)	(min)	-----	4.5 %
Sodium (Na)	(max)	-----	5.0 %
Potassium (K)	(min)	-----	3.0 %
Copper (Cu)	(min)	-----	1000 PPM
Zinc (Zn)	(min)	-----	1000 PPM
Manganese (Mn)	(min)	-----	1000 PPM
Vitamin A	(min)	-----	120,000 IU/LB
Vitamin D <sub>3</sub>	(min)	-----	25,000 IU/LB
Vitamin E	(min)	-----	400 IU/LB

## Glyphosate Matrix



## INGREDIENT STATEMENT

This product contains only certified organic agricultural products or ingredients that conform to the NOP's national list of materials acceptable for organic livestock production.™

### INGREDIENTS:

Organic Dehydrated Alfalfa Meal, Dried Lactobacillus Acidophilus Fermentation Product, Organic Oat Groats, Verxite, Calcium Carbonate, Monosodium Phosphate, Diatomaceous Earth, Potassium Chloride, Bentonite, Salt, Sodium Bicarbonate, Organic Soybean Oil, Organic Linseed Meal, Reed-Sedge Peat, Dicalcium Phosphate, Attapulgitic Clay, Organic Dried Kelp, Choline Chloride, Sodium Aluminosilicate, Sodium Carbonate, Copper Sulfate, Yeast Culture, Magnesium Oxide, Zinc Sulfate, Vitamin E Supplement, Ferrous Sulfate, Manganese Sulfate, Ascorbic Acid, Calcium Hydroxide, Sodium Sulfate, Riboflavin, Manganous Oxide, Citric Acid, Zinc Hydroxychloride, Manganese Hydroxychloride, Calcium Pantothenate, Magnesium Chloride, Niacin, Basic Copper Chloride, Vitamin A Acetate, Organic Garlic, Organic Fenugreek, Sulfur, Folic Acid, Potassium Sulfate, Organic Apple Cider Vinegar, Organic Feed Grade Dried Milk, Organic Egg Product, Vitamin D3 Supplement, Organic Lecithin, Pyridoxine Hydrochloride, Organic Cloves, Vitamin B12 Supplement, Organic Barley, Beta-Carotene, Cobalt Sulfate, Thiamine Mononitrate, Biotin, Organic Dandelion, Ethylenediamine Dihydroiodide, Magnesium Sulfate, Organic Parsley, Organic Althea Root, Organic Dried Tomato Pomace, Organic Yucca Schidigera Extract, Organic Horseradish, Organic Licorice, Organic Sweet Orange Peel, Organic Aloe Vera Gel Concentrate, Copper Oxide, Zinc Oxide, Organic Peppermint, Organic Calendula, Organic Ginger, Organic Coconut Oil, Organic Sage, Organic Common Fennel, Organic Thyme, Organic Lemon Grass, Organic Elder Flowers, Cobalt Carbonate, Organic Papain, Organic Basil, Sodium Selenite, Organic Violet Leaves, Organic Coconut Flour, Organic Juniper Berries.

## Directions: Free Choice

**Manufactured for:**  
Advanced Biological Concepts®  
P.O. Box 27 • Osco, Illinois 61274-0027  
Phone: 800-373-5971 • Fax: 888-770-0735  
jgh@a-b-c-plus.com • www.abcplusplus.biz

Certified Organic by: ECOCERT SA

FPD549-22

# A202

**Net Weight 25 Pounds (11.63 kg)**

Disclaimer: This product is formulated to meet the requirements of the USDA National Organic Program. Advanced Biological Concepts® accepts no responsibility for performance failure or misuse of this product, or changes of organic protocol that we are not aware of.

- Increases utilization of supplemental minerals.
- Overcomes glyphosate-caused nutrient immobilization.
- Protects the quality of feed and food.



# D.U.A. G.R.P.™

Dietary Nutritional Supplement for Dairy Cattle, Beef Cattle, Sheep, Goats, Swine, Poultry, and Llamas



## GUARANTEED ANALYSIS

Crude Protein	(min)-----12.0 %	Phosphorus (P)	(min)-----1.0 %
Lysine	(min)-----0.05 %	Salt (NaCl)	(min)-----3.0 %
Methionine	(min)-----0.05 %	Salt (NaCl)	(max)-----3.5 %
Crude Fat	(min)-----3.5 %	Sodium (Na)	(min)-----1.0 %
Crude Fiber	(max)-----15.0 %	Sodium (Na)	(max)-----1.5 %
Acid Detergent Fiber (ADF)	(max)-----32.0 %	Copper (Cu)	(min)-----650 PPM
Calcium (Ca)	(min)-----5.0 %	Copper (Cu)	(max)-----750 PPM
Calcium (Ca)	(max)-----6.0 %	Zinc (Zn)	(min)-----1,500 PPM
		Vitamin A	(min)---180,000 IU/LB

## INGREDIENT STATEMENT

This product contains only certified organic agricultural products or ingredients that conform to the NOP's national list of materials acceptable for organic livestock production.™

### INGREDIENTS:

Dried Lactobacillus Acidophilus Fermentation Product, Organic Oat Groats, Diatomaceous Earth, Reed-Sedge Peat, Organic Linseed Meal, Dicalcium Phosphate, Calcium Carbonate, Attapulgite Clay, Organic Dehydrated Alfalfa Meal, Monosodium Phosphate, Organic Soybean Oil, Organic Dried Kelp, Bentonite, Sodium Aluminosilicate, Salt, Choline Chloride, Magnesium Oxide, Yeast Culture, Ferrous Sulfate, Zinc Sulfate, Sodium Sulfate, Potassium Chloride, Manganese Oxide, Zinc Hydroxychloride, Ascorbic Acid, Vitamin E Supplement, Manganese Hydroxychloride, Manganese Sulfate, Basic Copper Chloride, Organic Garlic, Organic Fenugreek, Niacin, Sulfur, Citric Acid, Folic Acid, Potassium Sulfate, Magnesium Sulfate, Riboflavin, Vitamin A Acetate, Organic Apple Cider Vinegar, Copper Sulfate, Organic Feed Grade Dried Milk, Calcium Pantothenate, Organic Egg Product, Pyridoxine Hydrochloride, Organic Cloves, Organic Lecithin, Organic Barley, Vitamin B12 Supplement, Cobalt Sulfate, Beta-Carotene, Calcium Hydroxide, Vitamin B12 Supplement, Biotin, Thiamine Mononitrate, Organic Dandelion, Ethylenediamine Dihydrochloride, Organic Parsley, Magnesium Chloride, Organic Althea Root, Organic Dried Tomato Pomace, Organic Yucca Schidigera Extract, Organic Horseradish, Organic Licorice, Organic Sweet Orange Peel, Organic Aloe Vera Gel Concentrate, Organic Peppermint, Organic Calendula, Organic Ginger, Organic Coconut Oil, Organic Sage, Organic Common Fennel, Organic Thyme, Organic Lemon Grass, Organic Elder Flowers, Cobalt Carbonate, Organic Papain, Organic Basil, Organic Violet Leaves, Organic Coconut Flour, Organic Juniper Berries.

### DIRECTIONS FOR USE:

#### DAIRY CATTLE:

Top Dress or Add Mix:  
1/2 ounce (14.17 g) per head per day.

#### CALVES:

Top Dress or Add Mix:  
1/2 ounce (14.17 g) per head per day.

#### BEEF CATTLE:

Top Dress or Add Mix:  
1/4 ounce (7.09 g) per head per day.

#### Receiving:

Top Dress or Add Mix:  
1/2 ounce (14.17 g) per head per day  
for 14 days.

#### SHEEP & GOATS:

Top Dress or Add Mix:  
1/8 ounce (3.54 g) per head per day.

#### SWINE:

Finishing:  
Add 3 Pounds Per Ton of Complete Ration.

Grower and Lactation:  
Add 5 Pounds Per Ton of Complete Ration.

Starter and Gestation:  
Add 7 Pounds Per Ton of Complete Ration.

#### POULTRY:

Starter:  
Add 4 Pounds Per Ton of Complete Ration.

Complete Feed:  
Add 2 Pounds Per Ton of Complete Ration.

#### LLAMAS / EMUS / ALPACAS:

Top Dress or Add Mix:  
1/4 ounce (7.09 g) per head per day.

#### Manufactured for:

Advanced Biological Concepts®  
P.O. Box 27 • Osco, Illinois 61274-0027  
Phone: 800-373-5971 • Fax: 888-770-0735  
jgh@a-b-c-plus.com • www.abcplusplus.com

Certified Organic by: ECOCERT SA

FPD680-25

# A101

**Net Weight 25 Pounds (11.36 kg)**

Disclaimer: This product is formulated to meet the requirements of the USDA National Organic Program. Advanced Biological Concepts® accepts no responsibility for performance failure or misuse of this product, or changes of organic protocol that we are not aware of.