12 Stones Grassland Beef[®] "Committed to Excellence"

12 Stones Grassland Beef® is a vertically integrated production, management and marketing company for the production of gourmet Grassfed Beef.



P.O. Box 27 • Osco, Illinois 61274-0027 (USA) 800-373-5971 (Local) 309-714-8789 • (Fax) 888-770-0735 12stonesgrasslandbeef@gmail.com • www.12stonesgrasslandbeef.net

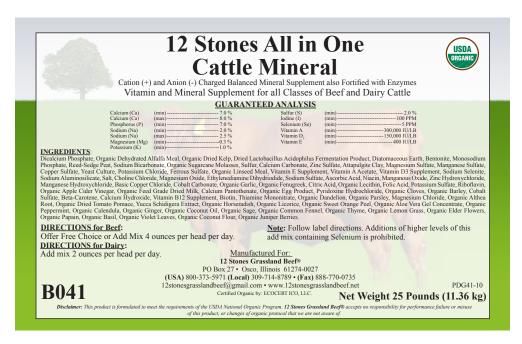
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<u>Why Have Supplements For</u> <u>Grass Fed Cattle?</u>

12 Stones Grassland Beef® and **Advanced Biological Concepts**® have teamed up to supply nutritional tools for the grass cattle industry to maximize animal health and forage utilization. It is our goal to provide help when the restricted environment does not supply what an unrestricted grazing environment could for a complete nutritional profile. Soil and forage management are making great advances and are a primary way to achieve your grass management goals. Our goal is to provide tools that we have found to be needed to overcome adversity that is a normal part of life and nature. Animal health and nutrient dense food need not be compromised because of that adversity. Our products are grass based and all ingredients fit the natural grass source nutritional standards for grass finished beef.

Beef cattle are starvation resistant animals that have been a tool to market by-products and waste for years. The move toward grass finished beef has been motivated by nutritional research clearly defining differences in biochemical composition of meat based on nutrition and management. Our goal is to assure the nutrient density of grass fed beef is all that it can and should be despite fluctuations in environmental conditions. A healthy, pleasurable eating experience is critical for the grass finishing industry to assume its rightful role in American Agriculture.

All In One Mineral for Beef and Dairy Cattle NOW AVAILABLE!



12 Stones All in One Cattle Mineral - 25 lb Bag Item no. B041

12 Stones A-Mix



PDG1-16

Free Choice Mineral Supplement for all Classes of Beef

GUARANTEED ANALYSIS

Crude Protein	(min) 8.00 %
Crude Fat	(min)2.00 %
Crude Fiber	(max) 20.00 %
ADF	(max) 40.00 %
Phosphorus (P)	(min) 0.10 %

INGREDIENTS

Organic Dehydrated Alfalfa Meal, Bentonite, Sodium Bicarbonate, Vitamin A Acetate, Vitamin E Supplement, Vitamin D 3 Supplement, Dried Lactobacillus Acidophilus Fermentation Product, Diatomaceous Earth, Reed-Sedge Peat, Organic Linseed Meal, Dicalcium Phosphate, Calcium Carbonate, Attapulgite Clay, Monosodium Phosphate, Organic Dried Kelp, Sodium Aluminosilicate, Salt, Choline Chloride, Magnesium Oxide, Yeast Culture, Ascorbie Acid, Ferrous Sulfate, Ziac Sulfate, Salt, Organic Carlie, Organic Pred Kelp, Sodium Aluminosilicate, Salt, Choline Chloride, Magnesium Oxide, Yeast Culture, Ascorbie Acid, Ferrous Sulfate, Ziac Sulfate, Salt, Choline Chloride, Organic Lecithin, Manganese Hydroxychloride, Manganese Sulfate, Basic Copper Chloride, Organic Carlie, Organic Fenetgreek, Naicai, Sulfur, Citrie Acid, Folte Acid, Potassium Sulfate, Mangensei Mydroxychloride, Organic Earley, Copali Sulfate, Ziac, Sodium Aluminosilicate, Selt, Corganic Egg Product, Pyridoxine Hydrochloride, Organic Cloves, Organic Barley, Cobalt Sulfate, Beta-Carotene, Calcium Hydroxick, Vitamin B12 Supplement, Biotin, Thiamine Mononitrate, Organic Dandelion, Erbylenediamine Dihydroidel, Organic Erate, Magnesium Chloride, Organic Althea Root, Organic Dried Tomato Pomace, Yucca Schidigera Extract, Organic Choreine, Organic Carotene, Calcium Hydroxick, Organic Event, Organic Canedul, Organic Carbonate, Organic Carbo

DIRECTIONS for Dairy and Beef:

Offer Free Choice separate from other parts of the ration.

THIS PRODUCT MEETS THE SPECIFICATIONS FOR NATURAL LIVESTOCK PRODUCERS.

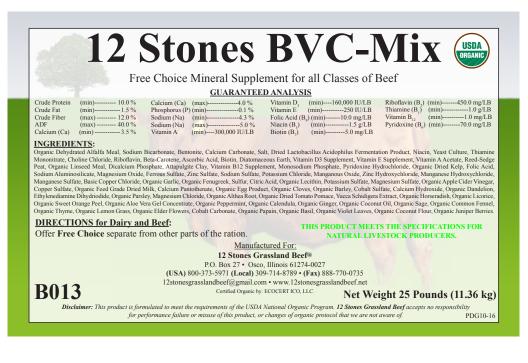
Manufactured For: 12 Stones Grassland Beef®

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Net Weight 25 Pounds (11.36 kg)

Disclaimer: This product is formulated to meet the requirements of the USDA National Organic Program. 12 Stones Grassland Beef accepts no responsibility for performance failure or misuse of this product, or changes of organic protocol that we are not aware of.



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	4.2 % 5.2 %	Sodium (Na) Sodium (Na)	(min)		Magnesium (Mg) Potassium (K)	(min) (min)	2.5 % 2.5 %
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		Mineral Suj GUARANT	pplement FEED AN	C- for all Cla	sses of Beef		
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12 Stones Cu-Mix



Free Choice Mineral Supplement for all Classes of Beef

GUARANTEED ANALYSIS

Salt (NaCl) (min) ----- 85.0 % Salt (NaCl) (max) ----- 90.0 % Copper (Cu)(min) ----- 1.30 %

INGREDIENTS:

Sult Copper Sulfate, Sodium Aluminosilicate, Dried Lactobacillus Acidophilus Fermentation Product, Diatomaecous Earth, Reed-Sedge Peat, Organic Linsed Meal, Dicalcium Phosphate, Calcium Carbonate, Attapulgite Clay, Organic Dehydrated Alfalfa Meal, Monosodium Phosphate, Organic Dried Kelp, Bentonite, Choline Chloride, Magnesium Oxide, Yeast Culture, Ascorbic Acid, Vitamin E Supplement, Ferrous Sulfate, Zinc Sulfate, Sodium Sulfate, Potasium Chloride, Magnesum Sulfate, Ritor Copper Chloride, Organic Leichtin, Manganose Dxide, Zinc Kulfate, Richard Copper Chloride, Organic Carle (organic Fenugreek, Niaein, Sulfar, Citric Acid, Folic Acid, Potassium Sulfate, Magnesium Sulfate, Ribofave, Vatamin DS Supplement, Copati Sulfate, Ribofave, Niaein, Sulfar, Citric Acid, Folic Acid, Potassium Sulfate, Magnesium Sulfate, Ribofave, Organic Barley, Vitamin D3 Supplement, Cobalt Sulfate, Beta-Carotene, Calcium Hydroxide, Vitamin B12 Supplement, Biotint, Thiamine Mononitrate, Organic Dandelon, Ethylenediamine Dilydroidide, Organic Earley, Ngancisum Chloride, Organic Althea Root, Organic Dired Tomato Pomace, Yucca Schidigera Extract, Organic Horserdsh, Organic Ciareto Sulfate, Althea Root, Organic Cider Organic Calendula, Organic Garent Cole Papain, Organic Garent Flue, Potanic Common Fennel, Organic Alee Vera Gel Concentrate, Organic Elder Flowers, Cobalt Carbonate, Organic Basil, Organic Violet Leaves, Organic Common Flour, Organic Linemo

<u>DIRECTIONS</u> for Dairy and Beef: Offer Free Choice separate from other parts of the ration.

THIS PRODUCT MEETS THE SPECIFICATIONS FOR NATURAL LIVESTOCK PRODUCERS.

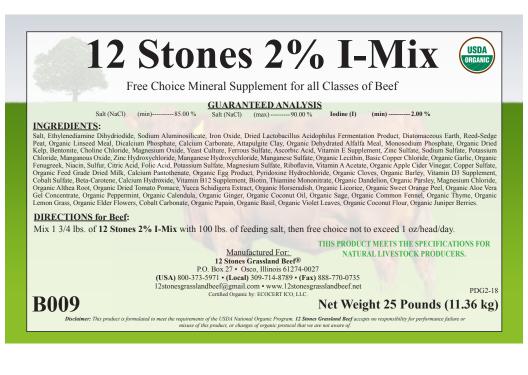
Manufactured For: 12 Stones Grassland Beef®

USAN 800-373-5971 • (Local) 309-714-8789 • (Fax) 888-770-0735 12stonesgrasslandbeef@gmail.com • www.l2stonesgrasslandbeef.net Certified Organis by: ECOCERT ICO.LLC.



Net Weight 25 Pounds (11.36 kg)

Disclaimer: This product is formulated to meet the requirements of the USDA National Organic Program. 12 Stones Grassland Beef accepts no responsibility for performance failure or misuse of this product, or changes of organic protocol that we are not aware of. PDG11-17



12 Stones K-Mix



Free Choice Mineral Supplement for all Classes of Beef

GUARANTEED ANALYSIS

Sodium (Na) (min) ----- 5.0 %

Sodium (Na) (max)----- 6.0 %

Potassium (K) (min) ----- 31.0 %

INGREDIENTS:

Potassium Chloride, Sodium Bicarbonate, Organic Dehydrated Alfalfa Meal, Diatomaccous Earth, Dried Lactobacillus Acidophilus Fermentation Product, Reed-Sedge Peat, Organic Linseed Meal, Dicalcium Phosphate, Attapulgite Clay, Calcium Carbonate, Monosodium Phosphate, Organic Dried Kelp, Bentonite, Sodium Aluminosilicate, Salt, Choline Chloride, Magnesium Oxide, Ascorbic Acid, Vitamin E Supplement, Yeast Culture, Ferrous Sulfate, Zine Sulfate, Sodium Sulfate, Manganous Oxide, Organic Lecithin, Zine Hydroxychloride, Manganese Hydroxychloride, Manganese Sulfate, Basic Copper Chloride, Organic Garite, Organic Fenugreek, Niacin, Sulfar, Citrie Acid, Folic Acid, Potassium Sulfate, Magnesium Sulfate, Ribofanyin, Vitamin A Acetate, Organic Marle, Apple Cider Vinegar, Copper Sulfate, Organic Feed Grade Dried Milk, Calcium Pantothenate, Organic Egg Product, Pyridoxine Hydrochloride, Organic Cloves, Organic Barley, Vitamin D3 Supplement, Cobalt Sulfate, Beta-Carotene, Calcium Hydroxide, Vitamin B12 Supplement, Biotin, Thiamine Mononitrate, Organic Horseradish, Organic Licorice, Organic Barley, Organic Parle, Naganic Male Vera Gel Concentrate, Organic Parlet Poperative Torganic Parlet, Torganic Barley, Stiamin Comon Fenel, Organic Male Vera Gel Concentrate, Organic Elder Flowers, Cobalt Carbonate, Organic Lemon Grass, Organic Elder Eleves, Organic Janico Roomon Frendel, Organic Itamone Com

DIRECTIONS: Offer Free Choice separate from other parts of the ration.

THIS PRODUCT MEETS THE SPECIFICATIONS FOR NATURAL LIVESTOCK PRODUCERS.

Manufactured For: **12 Stones Grassland Beef®** P.O. Box 27 • Osco, Illinois 61274-0027

(USA) 800-373-5971 • (Local) 309-714-8789 • (Fax) 888-770-0735 12stonesgrasslandbeef@gmail.com • www.12stonesgrasslandbeef.net

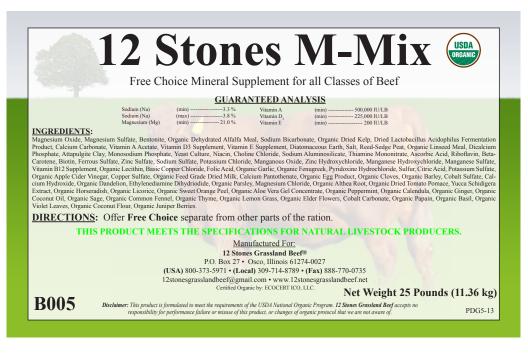
Certified Organic by: ECOCERT ICO, LLC.

PDG7-14

B015

Net Weight 25 Pounds (11.36 kg)

Disclaimer: This product is formulated to meet the requirements of the USDA National Organic Program. 12 Stanes Grassland Beef accepts no responsibility for performance failure or misuse of this product, or changes of organic protocol that we are not aware of.



12 Stones P-Mix



Free Choice Mineral Supplement for all Classes of Beef

GUARANTEED ANALYSIS

Calcium (Ca)	(min)3.00 %
Calcium (Ca)	(max)4.00 %
Phosphorus (P)	(min) 20.00 %

 Sodium (Na)
 (min)----- 15.00 %

 Sodium (Na)
 (max) ------ 17.00 %

INGREDIENTS:

B006

Monosodium Phosphate, Dicalcium Phosphate, Sodium Bicarbonate, Organic Dehydrated Alfalfa Meal, Iron Oxide, Dried Lactobacillus Acidophilus Fermentation Product, Datomaceous Earth, Reed-Sedge Peat, Organic Linseed Meal, Calcium Carbonate, Attapulgite Clay, Organic Dried Kelp, Bentonite, Sodium Aluminosilicate, Salt, Choline Chloride, Magnesium Oxide, Yeast Clutture, Ascorbic Acid, Vitamin E Supplement, Ferrous Sulfate, Zino Sulfate, Zino Sulfate, Dato Sulfate, Datoma Sulfat

DIRECTIONS for Beef: Offer Free Choice separate from other parts of the ration.

THIS PRODUCT MEETS THE SPECIFICATIONS FOR NATURAL LIVESTOCK PRODUCERS.

 Manufactured For:

 12 Stones Grassland Beef®

 P.O. Box 27 • Osco, Illinois 61274-0027

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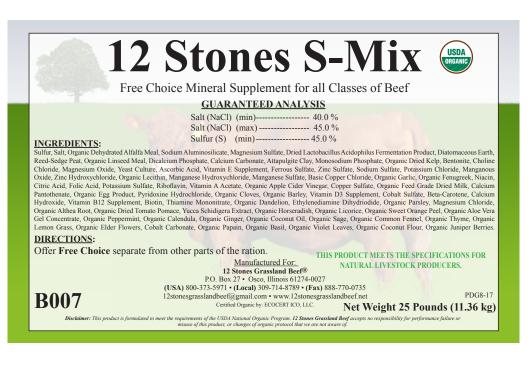
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Certified Organic by: ECOCERT ICO, ELC.

Net Weight 25 Pounds (11.36 kg)

PDG3-14

Disclaimer: This product is formulated to meet the requirements of the USDA National Organic Program. 12 Stones Grassland Beef accepts no responsibility for performance fai misuse of this product, or changes of organic protocol that we are not aware of.



12 Stones SE Top Choice Mix 👜

Free Choice Mineral Supplement for all Classes of Beef

GUARANTEED ANALYSIS

Salt (NaCl) (min) ----- 70 %

Salt (NaCl) (max)-----75 %

Selenium (Se) (min)-----100 PPM

INGREDIENTS:

Salt, Organic Dehydrated Alfalfa Meal, Bentonite, Sodium Bicarbonate, Sodium Aluminosilicate, Sodium Selenite, Dried Yeast, Dried Lactobacillus Acidophilus Fermentation Product, Iron Oxide, Vitamin E Supplement, Vitamin A Acetate, Vitamin D3 Supplement, Diatomaceous Earth, Reed-Sedge Peat, Organic Linseed Meal, Dicalcium Phosphate, Calcium Carbonate, Attapulgite Clay, Monosodium Phosphate, Organic Dried Kelp, Choline Chloride, Magnesium Oxide, Yeast Culture, Ascorbic Acid, Ferrous Sulfate, Zinc Sulfate, Sodium Sulfate, Potassium Chloride, Manganous Oxide, Zinc Hydroxychloride, Manganese Hydroxychloride, Organic Lecithin, Manganese Sulfate, Basic Copper Chloride, Organic Garlic, Organic Fenugreek, Niacin, Sulfur, Citric Acid, Folic Acid, Potassium Sulfate, Magnesium Sulfate, Riboflavin, Organic Apple Cider Vinegar, Copper Sulfate, Organic Feed Grade Dried Milk, Calcium Pantothenate, Organic Egg Product, Pyridoxine Hydrochloride, Organic Cloves, Organic Barley, Cobalt Sulfate, Beta-Carotene, Calcium Hydroxide, Vitamin B12 Supplement, Biotin, Thiamine Mononitrate, Organic Dandelion, Ethylenediamine Dihydriodide, Organic Parsley, Magnesium Chloride, Organic Althea Root, Organic Dried Tomato Pomace, 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: Free Choice not to exceed 0.3 mg of Selenium per head per day per total ration.

NOTE: MUST OFFER A FREE CHOICE COMMON WHITE SALT BLOCK OR COMMON WHITE FEED MIXING SALT!

THIS PRODUCT MEETS THE SPECIFICATIONS FOR Manufactured For: 12 Stones Grassland Beef® P.O. Box 27 · Osco, Illinois 61274-0027

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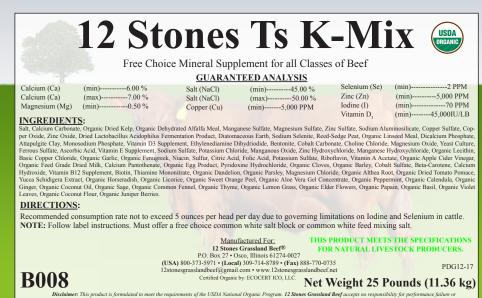


Net Weight 25 Pounds (11.36 kg)

PDG15-17

NATURAL LIVESTOCK PRODUCERS

product is formulated to meet the requirements of the USDA National Organic Program. 12 Stones Grassland Beef accepts no responsibility for performance failure this product, or changes of organic protocol that we are not aware of.



misuse of this product, or changes of organic protocol that we are not aware of



12 Stones Mineral Feeder For Individual Free Choice Minerals

Feeding Free Choice Minerals Has Effects on Many Levels.

* Allows the animal to balance nutritional minerals and trace minerals.
* Allows the animal to balance the Cation/Anion charge in feed.
* Allows the animal to balance the Cation/Anion charge in water

*Allows the animal to balance the Cation/Anion charge in water.



12 Stones "Low Boy" Mineral Feeder Space for 12 Different Items Feeder plans are available upon request.

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12 Stones Mineral Kits

Contain Individual Free Choice Minerals



*See pages 3-9 for information on each of the individual minerals.

12 Stones Mineral Refill Kit

Item no. B019

Includes One 25 lb Bag of Each of the Following Minerals:

- 12 Stones A Mix
- 12 Stones BVC Mix
- 12 Stones Cu Mix
- 12 Stones K Mix
- 12 Stones P Mix
- 12 Stones TS K Mix

12 Stones 40 Bag Free Choice Pallet

Item no. B017 Recommended for 250 head (40 x 25 lb bags) Based on average usage

Includes:

12 Stones A Mix	11 Bags
12 Stones BVC Mix	9 Bags
12 Stones Buffer Plus	2 Bags
12 Stones C Mix	4 Bags
12 Stones Cu Mix	1 Bag
12 Stones 2% I Mix	1 Bag
12 Stones K Mix	2 Bags
12 Stones M Mix	1 Bag
12 Stones P Mix	4 Bags
12 Stones S Mix	2 Bags
12 Stones TS K Mix	2 Bags
12 Stones Zn Mix	1 Bag

- 12 Stones Buffer Plus
- 12 Stones C Mix
- 12 Stones 2% I Mix
- 12 Stones M Mix
- 12 Stones S Mix
- 12 Stones Zn Mix

12 Stones 80 Bag Free Choice Pallet

Item no. B018

Recommended for 500 head (80 x 25 lb bags) Based on average usage

Includes:

12 Stones A Mix	22 Bags
12 Stones BVC Mix	18 Bags
12 Stones Buffer Plus	4 Bags
12 Stones C Mix	8 Bags
12 Stones Cu Mix	2 Bags
12 Stones 2% I Mix	2 Bags
12 Stones K Mix	5 Bags
12 Stones M Mix	2 Bags
12 Stones P Mix	7 Bags
12 Stones S Mix	4 Bags
12 Stones TS K Mix	4 Bags
12 Stones Zn Mix	2 Bags

Should I Supplement Selenium? Selenium is not included in our free choice kits; however, we do offer a Selenium mix which can be purchased separately and offered if needed. While many soils are Selenium deficient, some may have excessive amounts of selenium. To find out if your area is selenium deficient, consult your local veterinarian.

Offer Free Choice White Salt in addition to all 12 Stones Free Choice products.

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<u>12 Stones Organic Pellets</u>

(formerly Cal Cubes)

An affordable, all natural, grass-based supplemental energy source for grass fed cattle during times of special need.

Organic Alfalfa is combined with Organic Molasses and enzymes to produce an energy rich supplement to maintain the proper protien/energy ration when poor forage makes it tough. 1,000,000 calories per pound make this the tool we always need but could not find in adverse situations. One pound, per head, per day make 12 Stones Organic Pellets an economical and easy to feed energy source that fits grass-fed standards.

Uses include:

- Assuring finish on grass cattle the last 45 to 90 days of finishing
- · A nutritious reward to gentle and train cattle
- Balancing protein to energy on poor forage
- Extra energy for preconditioning for times of stress like transport or stockers going to grass
- Shorten breeding season by getting cows gaining prior to breeding despite forage quality
- · Sustainable nutrition when Mother Nature throws a curve like drought

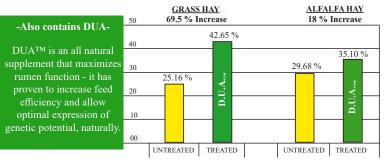
RECOMMENDATIONS:

Neutral Detergent Fiber Digestion

Independent Lab studies of $\mathbf{D}.\mathbf{U}.\mathbf{A}^{\mathsf{M}}$ effect on digestion of <u>N</u>eutral <u>D</u>etergent <u>F</u>iber <u>D</u>igestion yielded the following results.

 Finishing cattle – ½ to 1 # per head per day to optimize protein/energy ratio with forage for maximum finish during last 45 to 90 days · Cows and bulls - use as needed for training or supplementation during critical periods of poor forage Growing cattle – ½ # per

head per day when forage quality is not sufficient to allow optimum growth to fit marketing plan





Guaranteed Analysis:

Crude Protein min-----8.0%

Crude Fiber max-----21.0%

Crude Fat min-----4.0%

Ingredients:

Ingredictions. Organic Delydrated Alfalfa Meal, Attapulgite Clay, Organic Soybean Oil, Organic Coconut Oil, Dried Lactobacillus Acidophilus Fermentation Product, Organic Sugarcane Molasses, Diatomaceous Earth, Organic Apple Cider Vinegar, Reed-Sedge Peat, Organic Linseed Meal, Dicalcium Phosphate, Calcium Carbonate, Monosodium Phosphate, Organic Dried Kelp, Bentonite, Sodium Aluminosilicate, Salt, Choline Chloride, Magnesium Oxide, Yeast Culture, Ascorbic Acid, Vitamin E Supplement, Ferrous Sulfate, Zinc Sulfate, Sodium Sulfate, Potassium Chloride, Manganous Oxide, Zinc Hydroxychloride, Manganese Hydroxychloride, Manganese Sulfate, Organic Lecithin, Basic Copper Chloride, Organic Garlie, Organic Fenugreek, Niacin, Sulfur, Citric Acid, Folic Acid, Potassium Sulfate, Magnesium Sulfate, Riboflavin, Vitamin A Acetate, Copper Sulfate, Organic Feed Grade Dried Milk, Calcium Pantothenate, Organic Egg Product, Pyridoxine Hydrochloride, Organic Cloves, Organic Barley, Vitamin D3 Supplement, Cobalt Sulfate, Beta-Carotene, Calcium Hydroxide, Vitamin Bl2 Supplement, Biotin, Thiamine Mononitrate, Organic Darlelon, Ethylenediamine Dihydriodide, Organic Sweet Orane Peel. Organic Albea Rothenear, Organic Dried Tomato Pomace, Yucca Schüderen Extract. Organic Hydrosreadish. Organic Sweet Organic Peel Organe Peel. Organic Albea Rothenear, Organic Dried Comato Pomace, Yucca Schüderen Extract. Organic Hydrosreadish. Organic Lioorice. Organic Barley, Vitamin A Dreated, Organic Sweet Organe Peel. Organic Albea Rothenear, Organic Dried Founda Pomace Peol Organic Albea Peol. Organic Albea Nature Organic Dried Sweet Organic Rotheneare, Organic Albea Peol. Organic Albea Rotheneare, Dreate Dried Sweet Organic Albea Peol. Organic Albea Peol. Organic Albea Peol. Organic Albea Rotheneare Organic Dried Sweet Organic Albea Peol. Orga Haami or supprinter, form, runame involute, organic bunction, rain threading and the supprinter statisty indigenerative and the superinter of the superinter

Directions:

B038-2

Feed at a rate of 1 pound per head per day.

THIS PRODUCT MEETS THE SPECIFICATIONS FOR NATURAL LIVESTOCK PROCEDURES.

Manufactured For: 12 Stones Grassland Beef®

PO Box 27 • Osco, Illinois 61274-0027 (USA) 800-373-5971 • (Local) 309-714-8789 • (Fax) 888-770-0735 12stonesgrasslandbeef@gmail.com • www.12stonesgrasslandbeef.net

Certified Organic by: ECOCERT ICO, LLC

Net Weight 25 Pounds (11.36 kg)

Disclaimer: This product is formulated to meet the requirements of the USDA National Organic Program. 12 Stones Grassland Beef PDG40-8 accepts no responsibility for performance failure or misuse of this product, or changes of organic protocol that we are not aware of

Available in 25 lb bags (B038-2) and Totes - Minimum 1500 lbs (B037-2).

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12 STONES FACTORS LIQUID For Livestock Production And All Classes Of Horses GUARANTEED ANALYSIS Fat (min)..... 0.1 % Protein (min)...... 0.5 % Fiber (max)..... 1.0 % INGREDIENTS: INVIKEDUENTS: Liquid Lacobachistik Acidophilus Fermentation Product, Organic Aloe Vera Gel Concentrate, Palm Oil, Organic Feed Grade Dried Milk, Potassium Citrate, Citric Acid, Water, Sodium Sulfate, Magnesium Sulfate, Calcium Sulfate, Silicon Dioxide, Yueca Schidigera Extract, Salt, Organic Cloves, Organic Egg Product, Niacin, Ferorus Sulfate, Diatomaceous Earth, Organic Dehydrated Alfalfa Meal, Organic Gentian Root, Biotin, Choline Choirde, Tianiami Monomitrate, Folie Acid, Rhofdavin, Latch Acid, Pergins, Privatosane Hydrochloride, Organic Coconut Oil, Organics Barley Hulls, Yeast Culture, Organic Ginger, Organic Peppermint, Organic Sweet Orange Peel, Organic Dandelion, Organic Violet Leaves, Vitamin B12 Supplement, Organic Garlie, Potassium Chloride. DIRECTIONS: Newborn Calves: Add to the Milk Replacer: At 1/2 oz per calf twice daily for 5 consecutive days Receiving Calves and Times of Stress: Add to the Milk Replacer: At 1/2 oz per calf twice daily for 3 consecutive days. Oral Application: At 1 oz per calf once daily for 3 consecutive days Mature Cattle: Oral application/Top Dressing/Within Total Mixed Ration: At 1 oz per head per day for 3 days. Wait 12 days. Repeat at 1/2 oz per head per day for 3 days. Wait 12 days. Repeat at 1/2 oz per head per day for 3 days Note: For continued support repeat "Receiving and Times of Stress" application every 21 days until off milk. 1 ounce per horse per day for 7 days. Repeat in 3 weeks. Can be administered orally or top-dressed on the grain ration. Equine Immune Support: Note: At times of stress or immune system changes, give 1/2 ounce per horse per day as needed. Can be administered orally or top-dressed on the grain ration. Gilts: At 1/2 oz per head per day for 5 weeks and 2 weeks pre farrowing. At 1/2 oz per head per day for 3 weeks pre farrowing. Sows: Pigs 40 pounds and up: 1 gallon per ton of complete feed for 3 days. Pigs under 40 pounds: 2 gallons per ton of complete feed for 3 days THIS PRODUCT MEETS THE SPECIFICATIONS FOR Manufactured For: 12 Stones Grassland Beef® P.O. Box 27 • Osco, Illinois 61274-0027 (USA) 800-373-5971 (Local) 309-714-8789 • (Fax) 888-770-0735 NATURAL LIVESTOCK PRODUCERS. Shake Well Before Using grasslandbeef.net 120100 sgrasslandbeet mail.com • www.12ston FPD538-9

B023

Disclaimer: 12 Stones Grassland Beef® accepts no responsibility for performance failure or misuse of this product, or changes of natural protocol that we are not aware of. 1 Gallon (3.79 Liters)

TECHNICAL BULLETIN 12 Stones Factors Liquid®

12 Stones Factors Liquid contains Transfer Factor technology (cell mediated immunity) as well as antibodies derived from bovine colostrum and hyper-immune egg yolk antibodies (humoral immunity).

Transfer Factors are natural occurring immune substances in the bodies on all mammals and birds. They are present in the leukocytes (white blood cells). It is now well established that extracts from leukocytes contain lymphokines and several other immuno-active components.

Transfer Factor is a very small molecule having a molecular weight of less than 10,000 DA. It's function is to transfer critical immune information to cells and is present in significant amount in bovine colostrum and in egg yolks. In nature, one of its most important function is to transfer maternal immunity to the newborn. This is nature's way of transferring knowledge about fighting disease from one generation to the next.

Transfer Factor was discovered by Dr. D. S. Lawrence in 1949. He showed that specific cellular immunity could be transferred from one immunized donor, to an un-immunized recipient. While the results from using Transfer Factor appear similar to those seen with bovine colostrum or egg yolk antibodies, the mode of operation is vastly different; cell-mediated immunity verses Humoral (Antibody protection) immunity. Cell-mediated immunity plays a key role in the control of infections and auto immune diseases.

Transfer Factor enables the recipient's immune system to deal with pathogens it couldn't successfully fight by itself. Administration of transfer factor from immune individuals permits recipients to mount a successful immune response. Transfer Factor helps to regulate immune reactions in order for the immune system to reach a healthy equilibrium.

Transfer Factor can be used to increase or re-establish impaired immunity for combating existing infections or transfer new immunologic information to prevent new infections in exposed individuals. Unlike the antibodies and proteins found in egg yolks and colostrum alone, Transfer Factor, being such a tiny molecule survives the digestion process and is easily absorbed from the gut. Stomach acids and digestive enzymes do not degrade their potency.

There are no known adverse side effects to the use of Transfer Factor. Transfer Factor is extremely potent and can be administered in very small amounts which will confer specific cell-mediated reactivity on a normal recipient, lasting for over a year in some cases. There is more than 50 years of intensive research backing it up with hundreds of papers written about it. One of the references appears below, and more can be found on the internet.

An Introduction to Veterinary Immunology 2nd Edition 1982 Ian Tizard, Phd, Department of Veterinary Microbiology and Parasitology, College of Veterinary Medicine, Texas A & M University, College Station, TX W. B Saunders Company

12 Stones Product Line

12 Stones All In One Cattle Mineral	Pg. 2
12 Stones A Mix	Pg. 3
12 Stones BVC Mix	Pg. 3
12 Stones Buffer Plus	Pg. 4
12 Stones C Mix	Pg. 4
12 Stones Cu Mix	Pg. 5
12 Stones 2% I Mix	Pg. 5
12 Stones K Mix	Pg. 6
12 Stones M Mix	Pg. 6
12 Stones P Mix	Pg. 7
12 Stones S Mix	Pg. 7
12 Stones SE Top Choice Mix	Pg. 8
12 Stones TS K Mix	Pg. 8
12 Stones Zn Mix	Pg. 9
Low Boy Mineral Feeder	Pg. 9
Mineral Kits	Pg. 10
12 Stones Organic Pellets	Pg. 11
12 Stones Factors Liquid	Pg. 12 & 13

12 Stones Grassland Beef handles Advanced Biological Concepts® Full Product Line



12 Stones Grassland Beef[®] "Committed to Excellence"

VISIT OUR NEW WEBSITE! www.12stonesgrasslandbeef.net

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GPD13-21