

The background of the entire page is a photograph of several black and white dairy cows in a barn. They are gathered around a large pile of golden-brown hay, with some cows actively eating. The scene is lit with warm, natural light, creating a sense of a healthy, productive farm environment.

Midwestern BioAg

NUTRITION PRODUCT CATALOG

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ABOUT MIDWESTERN BIOAG

For nearly 40 years, Midwestern BioAg has helped producers improve farm yields sustainably through comprehensive, whole-farm management. Our full line of proven, proprietary products feeds the soil an optimum, balanced diet that supports soil life. In turn, farmers improve margins by growing healthier, more nutrient-dense crops. With our animal nutrition products, livestock producers can then fill any remaining nutritional needs, again benefiting from an improved bottom line. By supporting the farm as a system, farmers, livestock and consumers all benefit through improved food nutritional quality and lowered environmental impacts.

At Midwestern BioAg, we service conventional and organic operations, large and small. We support all types of crops, as well as livestock.

We offer:

- Dry fertilizers
- Liquid fertilizers
- Soil amendments
- Soil tests
- Forage tests
- Seed
- Livestock nutrition
- Specialized, full-farm consulting



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CUSTOM-BLENDED PRODUCTS

Forage quality can vary greatly from farm-to-farm. Differences in soil fertility and other management factors all impact the quality and nutrient content of both purchased and home-grown forages. Our custom-blended mineral products take these differences into account, allowing you to balance your program based on the forages in your inventory. In return, herd health, production, reproduction and ROI all improve.

LACTATING COWS

“O” Special 2114

“O” Special 2114 is a complete mineral and vitamin package designed to meet the specific nutritional needs of dairy cows.

Features:

- Provides calcium and phosphorus in a 2:1 ratio.
- Offers highly available phosphorus from monosodium phosphate and mono/dicalcium phosphate.
- Contains sulfate forms of trace minerals and meets daily vitamin needs, including vitamins A, D3 and E.

Recommended uses: Add “O” Special 2114 to rations on farms where phosphorus tie-up due to excess iron may occur. It can also be added to rations with large amounts of corn silage.

“O” Special 1512

“O” Special 1512 is a complete mineral and vitamin package formulated to meet the nutritional needs of dairy cows.

Features:

- Provides calcium and phosphorus (1.5:1 ratio), including highly available phosphorus from monosodium phosphate and mono/dicalcium phosphate.
- Contains sulfate forms of trace minerals and meets daily vitamin needs, including vitamins A, D3 and E.

Recommended uses: “O” Special 1512 is a ration additive that can help prevent phosphorus tie-up from excess iron. It can also improve rations containing poorly mineralized alfalfa forage or rations with alfalfa, grass and corn silage forage blends.

“O” Special 1110

“O” Special 1110 is a complete mineral and vitamin product formulated to meet the specific nutritional needs of dairy cows.

Features:

- Provides calcium and phosphorus in a 1:1 ratio.
- Contains highly available phosphorus from monosodium phosphate and mono/dicalcium phosphate.
- Contains sulfate forms of trace minerals.
- Meets daily vitamin needs, including vitamins A, D3 and E.

Recommended uses: Add “O” Special 1110 to rations on farms where phosphorus tie-up due to excess iron may occur, or to rations containing moderate-quality alfalfa forage.

“O” 1:2 Mineral

“O” 1:2 Mineral is a complete mineral and vitamin package designed specifically to meet the nutritional needs of dairy cows.

Features:

- Provides calcium and phosphorus (1:2 ratio), including highly available phosphorus from monosodium phosphate and mono/dicalcium phosphate.
- Contains sulfate forms of trace minerals.
- Meets daily vitamin needs, including vitamins A, D3 and E.

Recommended uses: Add “O” 1:2 Mineral to dairy rations with large amounts of quality alfalfa forage to help resolve phosphorus deficiencies and prevent tie-up from excess iron.

“O” Top Cap

“O” Top Cap is a concentrated trace mineral and vitamin blend with sulfate forms of essential trace minerals. It contains high levels of vitamin A, D, E and B (including niacin and choline).

Features:

- Contains sulfate forms of trace minerals.
- Supplies daily vitamin needs, including vitamins A, D3, E and B complex.
- Provides two sources of selenium
- Improves reproduction performance
- Promotes healthy immune system in livestock

Recommended uses: “O” Top Cap can be added to lactating rations for high-producing cows and works well in grain mixes, TMR mixes and mineral mixes.



Kurocal FarmPack

KuroCal™ FarmPack is a livestock feed additive formulated to support gut health in all types of livestock. It contains a live source of naturally occurring microorganisms, which work to improve performance and feed intake. Supporting gut integrity helps producers avoid costly herd health challenges and limits stress during times of transition and feeding program changes.

Features:

- **Supports Intestinal Health:** KuroCal FarmPack contains live microorganisms that promote healthy gut bacteria.
- **Increase Herd Production:** Adding KuroCal FarmPack to rations supports higher feed intake which improves profitability. This can be especially beneficial in times of stress or feed changes.
- **Proven:** KuroCal FarmPack's formulation is backed by years of research showing positive impacts on gut health.
- **Versatile:** KuroCal FarmPack can be fed to all types and ages of livestock to support gut health.
- **Improved Herd Health:** Healthy animals eat and produce best. KuroCal FarmPack supports herd performance by maintaining gut health.
- **Excellent for Replacement Calves:** Establishing gut health early builds a strong foundation for future performance. KuroCal FarmPack promotes good gut health in young calves and supports productive rates of gain and growth.

“O” Selenium & Vitamin Premix

“O” Selenium & Vitamin Premix is a mineral package formulated to supplement the nutritional needs of livestock.

Features:

- Contains selenium derived from selenium yeast.
- Provides supplemental vitamins, including vitamins A, D3, E and B complex.

Recommended uses: Add “O” Selenium & Vitamin Premix to rations deficient in selenium and other vitamins. “O” Selenium & Vitamin Premix is especially helpful for animals in high-stress conditions or for use on farms with a written veterinary prescription calling for selenium over the FDA legal limit.

“O” SK Blend

“O” SK Blend is a free choice mineral that provides supplemental salt and kelp to livestock.

Features:

- Contains natural rock salt, a highly palatable salt that contains numerous trace minerals.
- Contains Icelandic kelp as a source of over 60 trace minerals and vitamins.
- Helps improve reproductive health, immune system function and hoof health.

Recommended uses: Feed “O” SK Blend as a high-quality supplemental salt and trace mineral source.

PYK and “O” PYK

PYK is a probiotic, yeast and kelp combination formulated to maximize digestive tract health and efficiency in all livestock. PYK can be used in all livestock rations and is an excellent digestive tract stabilizer for livestock undergoing ration changes.

Features:

- Contains live, beneficial bacteria (including *Lactobacillus acidophilus*) and live yeast cells.
- Provides digestive enzymes.
- Contains Icelandic kelp (over 60 trace minerals and vitamins).
- Helps improve fiber digestion, reproduction, immune system function and hoof health.

Recommended uses: PYK can be used in all livestock rations. It is an excellent digestive track stabilizer for livestock undergoing ration changes.

- Improves fiber digestion by feeding rumen bacteria sugars and protein.
- Improves ration consistency and reduces TMR sorting.
- Increases rumen microbial protein production.
- Improves dry matter intake and roughage utilization.
- Reduces grain feeding.



DRY & PRE-FRESH COWS

“O” D-R-R-R-Y COW

“O” D-R-R-R-Y Cow is a vitamin and mineral package designed specifically for dry cow nutrition programs on organic dairies.

Features:

- Contains a balanced calcium and phosphorus source designed to complement late-maturing and grass-blend forages typically fed to dry cows.
- Contains Icelandic kelp (over 60 trace minerals and vitamins).
- Helps promote reproductive health, hoof health and immune system function.
- Contains yeast culture to help stabilize rumen fermentation and help it recuperate and regenerate for the next lactation.
- Meets daily trace mineral and vitamin needs, including vitamins A, D3, E and B complex.
- Contains selenium yeast as sole selenium source.

Recommended uses: Add “O” D-R-R-R-Y Cow to dry cow rations on organic farms.

“O” Selenium & Vitamin Premix

“O” Selenium & Vitamin Premix is a vitamin mineral package formulated to supplement the nutritional needs of livestock.

Features:

- Contains selenium derived from selenium yeast.
- Provides supplemental vitamins, including vitamins A, D3, E and B complex.

Recommended uses: Add “O” Selenium & Vitamin Premix to rations deficient in selenium and other vitamins. “O” Selenium & Vitamin Premix is especially helpful for animals in high-stress conditions or for use on farms with a written veterinary prescription calling for selenium over the FDA legal limit.

Kurocal FarmPack

KuroCal™ FarmPack is a livestock feed additive formulated to support gut health in all types of livestock. It contains a live source of naturally occurring microorganisms, which work to improve performance and feed intake. Supporting gut integrity helps producers avoid costly herd health challenges and limits stress during times of transition and feeding program changes.

Features:

- **Supports Intestinal Health:** KuroCal FarmPack contains live microorganisms that promote healthy gut bacteria.
- **Increase Herd Production:** Adding KuroCal FarmPack to rations supports higher feed intake which improves profitability. This can be especially beneficial in times of stress or feed changes.
- **Proven:** KuroCal FarmPack's formulation is backed by years of research showing positive impacts on gut health.
- **Versatile:** KuroCal FarmPack can be fed to all types and ages of livestock to support gut health.
- **Improved Herd Health:** Healthy animals eat and produce best. KuroCal FarmPack supports herd performance by maintaining gut health.
- **Excellent for Replacement Calves:** Establishing gut health early builds a strong foundation for future performance. KuroCal FarmPack promotes good gut health in young calves and supports productive rates of gain and growth.

“O” SK Blend

“O” SK Blend is a free choice mineral that provides supplemental salt and kelp to livestock.

Features:

- Contains natural rock salt, a highly palatable salt that contains numerous trace minerals.
- Contains Icelandic kelp as a source of over 60 trace minerals and vitamins.
- Helps improve reproductive health, immune system function and hoof health.

Recommended uses: Feed “O” SK Blend as a high-quality supplemental salt and trace mineral source.



PYK and “O” PYK

Our PYK blend is a probiotic, yeast and kelp combination specifically formulated to maximize digestive tract health and efficiency in all livestock.

Features:

- Contains live, beneficial bacteria (including *Lactobacillus acidophilus*) and live yeast cells.
- Provides digestive enzymes.
- Contains Icelandic kelp (over 60 trace minerals and vitamins).
- Helps improve fiber digestion, reproduction, immune system function and hoof health.

Recommended uses: PYK can be used in all livestock rations. It is an excellent digestive track stabilizer for livestock undergoing ration changes.

CALVES & HEIFERS

BioBaby 20/20 Non-Medicated Milk Replacer

BioBaby 20/20 Non-Medicated Milk Replacer is a high-quality, cold-processed milk replacer designed for optimum consistency and mixing ease.

Features:

- Contains food-grade protein and fat sources with highly available trace minerals (including sulfate forms).
- Provides high levels of vitamins A, D, E and B complex.
- Provides probiotic cultures, digestive enzymes and botanicals offering antimicrobial and antifungal properties to enhance immune function.
- Contains Apex, a botanical feed additive formulated to encourage feed intake and improve calf performance.
- Contains MOS (mannanooligosaccharides), a natural probiotic that aids in animal immune system function.

“O” BioBaby Calf Starter

“O” BioBaby Calf Starter is a complete calf starter composed of certified organic grains and quality minerals and vitamins from our “O” BioBaby Base Pellet. This starter is designed to meet the nutritional needs of young calves.

Features:

- Composed of certified organic grains that are roasted to improve digestibility.
- Contains minerals to meet young calf requirements, including sulfate forms of trace minerals.
- Supplies daily vitamin needs, including vitamins A, D3, E and B complex.
- Contains kelp as a source of over 60 trace minerals and vitamins.
- Helps promote reproductive health, immune system function and hoof health.
- Contains viable, naturally occurring microbials and digestive enzymes.

Recommended uses: Feed as a creep feed to milk-fed calves, or as a complete calf grain to weaned calves.



“O” BioBaby Base Pellet

“O” BioBaby Base Pellet is a complete mineral and vitamin package formulated to meet the specific nutritional needs of young calves.

Features:

- Contains calcium, phosphorus, magnesium and potassium to help meet young calf requirements.
- Contains sulfate forms of trace minerals.
- Delivers selenium (50% derived from selenium yeast).
- Meets daily vitamin needs, including vitamins A, D3, E and B complex.
- Contains Icelandic kelp (over 60 trace minerals and vitamins).
- Helps promote reproductive health, hoof health and immune system function.
- Contains beneficial, live, naturally occurring direct-fed microbials and digestive enzymes.
- Contains yeast culture.

Recommended uses: Include “O” BioBaby Base Pellet in calf starter rations.

“O” BioBaby Mixer Pellet

“O” BioBaby Mixer Pellet is a high-quality protein supplement designed to mix with corn and oats for a complete calf starter.

Features:

- Contains BioBaby Premix vitamins and minerals.
- Provides top-quality plant protein sources.
- Contains Icelandic kelp (over 60 trace minerals and vitamins).
- Helps promote reproductive health, immune system function and hoof health.
- Contains yeast culture and live, beneficial bacteria.

Recommended uses: Include “O” BioBaby Mixer Pellet in calf starter rations.

“O” Heifer Mineral

“O” Heifer Mineral is a mineral and vitamin package designed to meet the nutritional needs of growing cattle.

Features:

- Provides sulfate forms of trace minerals and selenium.
- Provides major minerals (Ca, P and Mg).
- Contains vitamins A, D3 and E.
- Contains Icelandic kelp (over 60 trace minerals and vitamins).
- Helps promote reproductive health, hoof health and immune system function.
- Contains Redmond Natural Trace Mineral Salt.

Recommended uses: Include “O” Heifer Mineral in all replacement heifer rations. It may also be fed free-choice.

KuroCal FarmPack

KuroCal™ FarmPack is a livestock feed additive formulated to support gut health in all types of livestock. It contains a live source of naturally occurring microorganisms, which work to improve performance and feed intake. Supporting gut integrity helps producers avoid costly herd health challenges and limits stress during times of transition and feeding program changes.

Features:

- **Supports Intestinal Health:** KuroCal FarmPack contains live microorganisms that promote healthy gut bacteria.
- **Increase Herd Production:** Adding KuroCal FarmPack to rations supports higher feed intake which improves profitability. This can be especially beneficial in times of stress or feed changes.
- **Proven:** KuroCal FarmPack’s formulation is backed by years of research showing positive impacts on gut health.
- **Versatile:** KuroCal FarmPack can be fed to all types and ages of livestock to support gut health.
- **Improved Herd Health:** Healthy animals eat and produce best. KuroCal FarmPack supports herd performance by maintaining gut health.
- **Excellent for Replacement Calves:** Establishing gut health early builds a strong foundation for future performance. KuroCal FarmPack promotes good gut health in young calves and supports productive rates of gain and growth.



“O” SK Blend

“O” SK Blend is a free-choice mineral that provides supplemental salt and kelp to livestock.

Features:

- Contains natural rock salt, a highly palatable salt that contains numerous trace minerals.
- Contains Icelandic kelp (over 60 trace minerals and vitamins).
- Helps improve reproductive health, immune system function and hoof health.

Recommended uses: Feed “O” SK Blend as a high-quality supplemental salt and trace mineral source.

PYK and “O” PYK

Our PYK blend is a probiotic, yeast and kelp combination specifically designed to maximize digestive tract health and efficiency in all livestock.

Features:

- Contains live, beneficial bacteria (including *Lactobacillus acidophilus*) and live yeast cells.
- Provides digestive enzymes.
- Contains Icelandic kelp (over 60 trace minerals and vitamins).
- Helps improve fiber digestion, reproduction, immune system function and hoof health.

Recommended uses: PYK can be used in all livestock rations. It is an excellent digestive track stabilizer for livestock undergoing ration changes.

FREE CHOICE MINERAL

“O” Grazing Special

“O” Grazing Special is a free-choice mineral package designed to supplement the nutritional needs of grazing dairy cattle.

Features:

- Provides highly available calcium and phosphorus.
- Provides high levels of supplemental magnesium to help prevent grass tetany (Hypomagnesemia).
- Contains sulfate forms of trace minerals.
- Contains Redmond Natural Trace Mineral Salt.
- Provides selenium from selenium yeast.
- Contains Icelandic kelp (over 60 trace minerals and vitamins).
- Helps promote reproductive health, immune system function and hoof health.

Recommended uses: “O” Grazing Special can be used as a basic, free-choice mineral for grazing animals.

“O” Free Choice Mineral

“O” Free Choice Mineral is a free-choice mineral designed to supplement the nutritional needs of livestock.

Features:

- Provides calcium and phosphorus in a 1.5:1 ratio.
- Provides high levels of magnesium to help prevent grass tetany (Hypomagnesemia) in livestock on lush grass.
- Contains sulfate forms of trace minerals.
- Provides supplemental selenium.
- Contains Icelandic kelp (over 60 trace minerals and vitamins).
- Helps improve reproduction health, immune system function and hoof health.

Recommended uses: Feed “O” Free Choice Mineral as a basic, free-choice mineral in conjunction with our free-choice supplement system.



“O” Free Choice Buffer

“O” Free Choice Buffer can be used in addition to sodium bicarbonate or as a sodium bicarbonate alternative to help improve rumen health and function. Herd intake of “O” Free Choice Buffer can be used as a measure of rumen health and acid levels. Many farmers use “O” Free Choice Buffer in conjunction with our “O” SK Blend and “O” Free Choice Mineral.

Features:

- Provides calcium and phosphorus in a 1.5:1 ratio.
- Contains calcium and magnesium sources with rumen buffering capabilities.
- Provides clay-based buffers such as montmorillonite and bentonite.
- Contains yeast culture to help stabilize the rumen fermentation process.
- Serves as a highly palatable free-choice supplement.

“O” SK Blend

“O” SK Blend is a free-choice mineral that provides supplemental salt and kelp to livestock.

Features:

- Contains natural rock salt, a highly palatable salt that contains numerous trace minerals.
- Contains Icelandic kelp (over 60 trace minerals and vitamins).
- Helps improve reproductive health, immune system function and hoof health.

Recommended uses: Feed “O” SK Blend as a high-quality supplemental salt and trace mineral source.

Redmond 10 Fine Salt & Blocks

Redmond 10 Fine Salt is a natural mineral source mined from a seabed in central Utah. It provides more than 60 naturally occurring trace minerals to help maintain herd health.

Features:

- Improve livestock health and production.
- 100% all natural mineral.

Recommended uses: Redmond 10 Fine Salt is crushed and screened to the size of coarse sand, making it ideal for mixing into rations or feeding free choice to livestock.

Redmond 10 Fine with Garlic

The Redmond 10 Fine with Garlic is a premium sea salt with naturally occurring essential trace minerals including zinc, manganese, copper, iodine and more. Preferred by livestock, 10 Fine with Garlic provides a broad-spectrum balance of trace minerals and antioxidants.

Features:

- Provides more than 60 naturally occurring trace minerals to help maintain herd health.
- Helps to control flies, lice and ticks.

Recommended uses: Redmond 10 Fine Salt is crushed and screened to the size of coarse sand, making it ideal for mixing into rations or feeding free choice to livestock.

Redmond Conditioner

Redmond Conditioner is an excellent mineral source containing over 60 minerals to help restore and maintain herd health.

Features:

- Helps lower somatic cell counts and mastitis incidences.
- Supports healthy microbe colonies.
- Improves nitrogen utilization in the rumen.
- Binds toxins in the rumen.
- Inhibits yeast and toxin growth in total mixed rations.
- Keeps rumen pH from becoming too acidic.

Thorvin Kelp

Thorvin Kelp is certified-organic, Icelandic kelp with high levels of naturally chelated, bioavailable nutrients.

Features:

- Contains a broad array of bioavailable minerals, amino acids and vitamins for superior metabolic health.
- Helps improve breed-back rates and reduces incidences of foot rot and pinkeye.

Recommended uses: Add Thorvin Kelp to rations, feed with salt or feed free-choice to livestock.



OTHER LIVESTOCK

Beef Co-Balancer R-800 Mineral

Beef Co-Balancer R-800 Mineral is a highly available mineral that can be fed to beef cattle and dairy cattle on growing and finishing diets.

Features:

- Provides intact protein and readily available nitrogen from urea to encourage rumen microbial growth.
- Supports skeletal growth and immune system function.
- Provides supplemental calcium.
- Improves feed efficiency and rate of gain.

Recommended uses: For feedlot cattle on corn co-product rations.

“O” Pork Premix

“O” Pork Premix is a complete mineral and vitamin supplement designed to meet the specific nutritional needs of swine.

Features:

- Contains sulfate forms of trace minerals.
- Includes vitamins A, D3, E and B complex to meet the daily vitamin needs of swine.

Recommended uses: Add “O” Pork Premix to all swine rations. Salt must be added separately.

“O” Poultry Premix

“O” Poultry Premix is a complete mineral and vitamin package formulated to meet the specific nutritional needs of poultry.

Features:

- Contains sulfate forms of trace minerals.
- Meets daily vitamin needs, including vitamins A, D3, E and B complex.
- Supplies most major minerals, including calcium, phosphorus, sodium and chloride.

Recommended uses: “O” Poultry Premix can be added to all poultry rations.

“O” Sheep Mineral

“O” Sheep Mineral is a complete mineral and vitamin package formulated to meet the specific nutritional needs of sheep.

Features:

- Contains sulfate forms of trace minerals.
- Includes vitamins A, D3, E and B complex to meet daily vitamin needs.
- Contains certified-organic Icelandic kelp as a source of over 60 trace minerals and vitamins.
- Helps improve reproductive health, immune system function and wool production.
- Contains yeast culture.
- Contains less than 50 ppm copper.

Recommended uses: “O” Sheep Mineral may be added to all sheep rations or fed free choice. Salt must be added to ration separately.

MBA Equine Mineral

MBA Equine Mineral is a complete, balanced mineral supplement for horses. It can be used as a free-choice mineral or fed as a grain supplement.

Features:

- Provides calcium and phosphorus from highly available sources.
- Contains multiple sources of magnesium to maintain muscle and nerve function.
- Includes yeast culture, salt and specialized flavorings for palatability.
- Contains sulfate forms of trace minerals.
- Contains Redmond Natural Trace Mineral Salt.
- Provides selenium from selenium yeast.
- Includes Thorvin Icelandic kelp as a source of over 60 trace minerals and vitamins to help improve reproductive health, immune system function and hoof health.
- Produced in an ionophore-free facility for safety.

Recommended uses: MBA Equine Mineral is a complete mineral supplement for all types of horses. It may be fed free choice or used as a grain supplement.



FEED INOCULANT

Fermentation “Plus”™ Silage Inoculant

Fermentation “Plus”™ Silage Inoculant contains live and naturally occurring microorganisms to ferment most plant materials. It can help you produce superior silage with low pH and high lactic acid. Fermentation “Plus” also helps prevent silage spoilage by inhibiting growth of harmful organisms. This product is available in both dry-granular and water-soluble forms.

Features:

- Reduces heat damage.
- Reduces harvest loss.
- Improves feed palatability.
- Increases feed digestibility and value.

Pro-Plus™ High Moisture Grain Inoculant

Pro-Plus™ Water Soluble High Moisture Grain Inoculant contains microorganisms that produce lactic acid and propionic acid for preservation of high moisture grains. Pro-Plus can provide the superior benefits of propionic acid, without the corrosive characteristics of acid preservation.

Features:

- Contains live, beneficial bacteria that speed the fermentation process and produce a lower final pH.
- Contains bacteria that produce propionic acid.
- Combination of lactic acid and propionic acid resists mold and yeast spoilage organisms, minimizes storage losses and produces more stable grain.

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



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