
**Ariana knowledge-based company**

## Producer of advanced feed additives for ruminants, poultry, and aquatic animals

# *Cow feed additives*

# Hepta-Mix®

## Seven-part organic minerals

**Beneficial effects for beef cattle and dairy cows:**

- Improving the reproduction
- Reduction of mastitis occurrence and somatic cells
- Reduction of lameness in the herd
- Reduction of ketosis occurrence
- Improving the function of immune system
- Increasing the resistance of animals to diseases
- Increasing the resistance of animals to environmental stresses
- Reduction of diarrhea in calves
- Improving dry matter consumption, milk production, and the quality of milk
- Improving the growth rate and daily weight gain of calves

| Analysis of Hepta$^{Mix}$ based on dry matter* (mg/kg) | |
|---|---|
| Organic zinc | 15500 |
| Organic manganese | 8500 |
| Organic copper | 5500 |
| Organic iron | 1800 |
| Organic chromium | 300 |
| Organic cobalt | 550 |
| Organic selenium | 60 |

| Recommended consumption amounts of the Hepta$^{Mix}$ g/d/animal | | | | | |
|---|---|---|---|---|---|
| Dairy cows | Dry cows | Prepartum cows | Beef cattle | | |
| | | | 200 to 300 kg live weight | 400 to 500 kg live weight | 600 to 800 kg live weight |
| 23 | 15 | 23 | 10 | 15 | 25 |
| -The recommended consumption amount may be increased in some stress conditions and/or based on nutritionist prescription | | | | | |

**Packaging**: 25 kg 3-layer composite packs; 5 and 10 kg buckets

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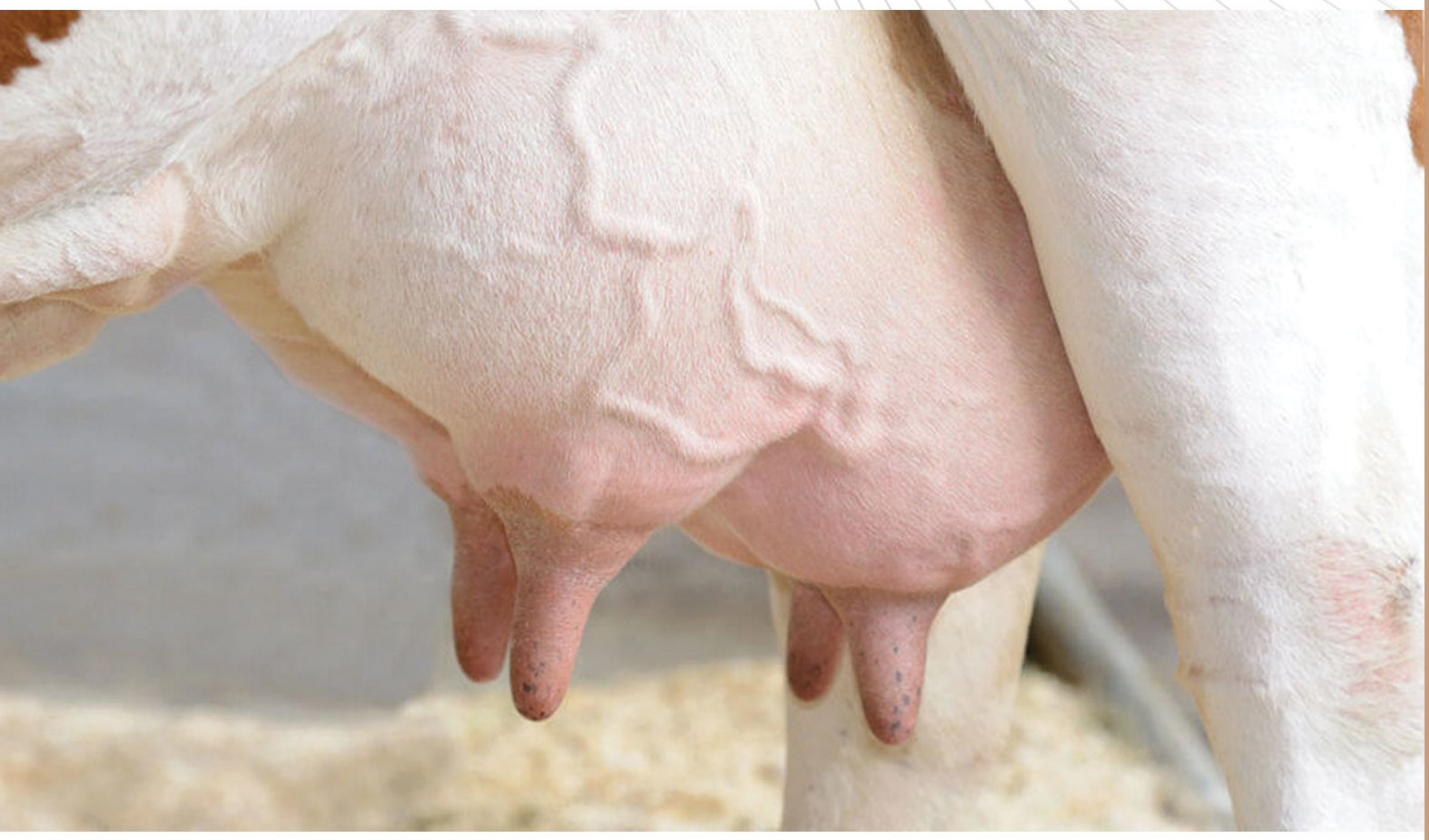

# MultiAct-D®

## Enriched premix for dairy cows (0.5%)

**Beneficial effects:**

- Improving efficiency and yield of milk production
- Increasing the percentage of fat in the milk
- Reduction of mastitis and somatic cells
- Reduction of Lameness in the herd
- Reduction of stresses, especially heat stress
- Improvement of reproduction

| Ingredients | | |
|---|---|---|
| Beneficial microbes (at least $10^8$ cfu/g) | *S. cervisiae* | |
| Microbial metabolites | Enzymes (protease, xylanase, amylase)<br>Organic acids (lactate, acetate, propionate, butyrate)<br>Bioactive peptides | |
| Prebiotics | B-glucans<br>Xylooligosaccharide<br>Mannan oligosaccharide | |
| Organic minerals | Organic calcium (amino Ca) | about 5 percent of daily requirement |
| | Organic zinc (Amino Zn) | about 30 percent of daily requirement |
| | Organic manganese (Amino Mn) | about 30 percent of daily requirement |
| | Organic copper (Amino Cu) | about 30 percent of daily requirement |
| | Organic iron (Amino Fe) | about 30 percent of daily requirement |
| | Organic cobalt (Amino Co) | about 30 percent of daily requirement |
| | Selenium-methionine (Amino Se) | about 30 percent of daily requirement |
| | Chromium-methionine (Amino Cr) | 100 percent of daily requirement |
| Buffer | Potassium carbonate | |

**To be used for dairy cows**
**Recommended consumption amount:** 80 g/animal/d
**Packaging:** 25 kg 3-layer composite packs

Produced based order

# MegaMix-D®

## Mineral-vitamin premix for dairy cows

## (1.5%)

**Beneficial effects:**

- Providing all vitamin and mineral requirements of the animals
- Improvement of reproduction
- Reduction of mastitis and somatic cells
- Reduction of Lameness in the herd
- Improving the function of immune system
- Reduction of stresses, especially heat stress
- Increasing quantity and quality of the milk

| Analysis of nutrients based on dry matter | |
|---|---|
| Vitamin A | 1000000 Iu/kg |
| Vitamin D3 | 200000 Iu/kg |
| Vitamin E | 3500 Iu/kg |
| Biotin | 100 mg/kg |
| Zinc (organic & inorganic) | 4000 mg/kg |
| Copper (organic & inorganic) | 1100 mg/kg |
| Iron (organic & inorganic) | 2000 mg/kg |
| Manganese (organic & inorganic) | 4000 mg/kg |
| Cobalt (organic & inorganic) | 67 mg/kg |
| Chromium (organic) | 67 mg/kg |
| Selenium (organic & inorganic) | 60 mg/kg |
| Iodine (inorganic) | 133 mg/kg |
| Calcium (organic & inorganic) | 10 % |
| Phosphorus | 3 % |
| Magnesium | 3 % |
| Fermented concentrate (enriched with yeast and metabolic compounds) | 10 % |
| Prebiotics (B-glucans & mannan oligosaccharide) | 3 % |
| Aromatic herbal compounds | 0.5 % |
| Other ingredients (toxin binder, buffer, and other additives) | |

**To be used for dairy cows**
**Recommended consumption amount:**
15 kg/t of concentrate
**Packaging**: 25 kg 3-layer composite packs; 10 kg buckets

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Produced based order

# MegaMix-D&H®

## Mineral-vitamin premix for dry and heifer cows (1.5%)

**Beneficial effects:**

- Providing all vitamin and mineral requirements of the animals
- Improving the function of gastrointestinal system
- Reduction of gastrointestinal disorders, and metabolic diseases
- Reduction of Ketosis and milk fever
- Improvement of fetal growth
- Increasing the immunoglobulins in the colostrum
- Reduction of stresses after calving
- Improving the function of immune system
- Reduction of open-days after calving

| Analysis of nutrients based on dry matter | |
|---|---|
| Vitamin A | 500000 Iu/kg |
| Vitamin D3 | 135000 Iu/kg |
| Vitamin E | 1000 Iu/kg |
| Zinc (organic & inorganic) | 3000 mg/kg |
| Copper (organic & inorganic) | 1000 mg/kg |
| Iron (organic & inorganic) | 2700 mg/kg |
| Manganese (organic & inorganic) | 2700 mg/kg |
| Cobalt (organic & inorganic) | 13 mg/kg |
| Chromium (organic) | 67 mg/kg |
| Selenium (organic & inorganic) | 60 mg/kg |
| Iodine (inorganic) | 0.01 % |
| Calcium (organic & inorganic) | 5 % |
| Phosphorus | 3 % |
| Lysine | 1.38 % |
| Methionine | 1.15 % |
| Fermented concentrate (enriched with yeast and metabolic compounds) | 10 % |
| Prebiotics (B-glucans & mannan oligosaccharide) | 3 % |
| Aromatic herbal compounds | 0.5 % |
| Other ingredients (toxin binder, buffer, and other additives) | |

**To be used for dry cows, heifers and Prepartum cows**

**Recommended consumption amount:** 15 kg/t of concentrate

**Packaging**: 25 kg 3-layer composite packs; 10 kg buckets

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# MultiAct-F®

## Enriched premix for beef cattle (0.5%)

**Beneficial effects:**

- Improving feed efficiency and growth rate
- Improving the function of immune system
- Development of microbial flora of the rumen
- Improving the function of gastrointestinal system
- Reduction of diarrhea, gastrointestinal disorders, and metabolic diseases
- Reduction of harmful effects of stresses
- Improving the health of bones, tendons and joints

**To be used for beef cattle**
**Recommended consumption amount:** 5 kg/t of concentrate
**Packaging**: 25 kg 3-layer composite packs

| Ingredients | | |
|---|---|---|
| Beneficial microbes (at least $10^8$ cfu/g) | *S. cervisiae* | |
| Microbial metabolites | Enzymes (protease, xylanase, amylase)<br>Organic acids (lactate, acetate, propionate, butyrate)<br>Bioactive peptides | |
| Prebiotics | B-glucans<br>Xylooligosaccharide<br>Mannan oligosaccharide | |
| Organic minerals | Organic calcium (amino Ca) | about 5 percent of daily requirement |
| | Organic zinc (Amino Zn) | about 30 percent of daily requirement |
| | Organic manganese (Amino Mn) | about 30 percent of daily requirement |
| | Organic copper (Amino Cu) | about 30 percent of daily requirement |
| | Organic iron (Amino Fe) | about 30 percent of daily requirement |
| | Organic cobalt (Amino Co) | about 30 percent of daily requirement |
| | Selenium-methionine (Amino Se) | about 30 percent of daily requirement |
| | Chromium-methionine (Amino Cr) | 100 percent of daily requirement |
| Buffer | Potassium carbonate | |

Produced based order

# MegaMix-F®

## Mineral-vitamin premix for beef cattle (1.5%)

**Beneficial effects:**

- Providing all vitamin and mineral requirements of the animals
- Improvement of growth and daily weight gain
- Improving the feed efficacy and feed intake
- Improving the function of immune system
- Reduction of stresses, especially heat stress
- Improving the function of gastrointestinal system

| Analysis of nutrients based on dry matter | |
|---|---|
| Vitamin A | 350000 Iu/kg |
| Vitamin D3 | 65000 Iu/kg |
| Vitamin E | 1500 Iu/kg |
| Zinc (organic & inorganic) | 3000 mg/kg |
| Copper (organic & inorganic) | 670 mg/kg |
| Iron (organic & inorganic) | 2300 mg/kg |
| Manganese (organic & inorganic) | 2300 mg/kg |
| Cobalt (organic & inorganic) | 27 mg/kg |
| Chromium (organic) | 30 mg/kg |
| Selenium (organic & inorganic) | 17 mg/kg |
| Iodine (inorganic) | 130 mg/kg |
| Calcium (organic & inorganic) | 10 % |
| Phosphorus | 3 % |
| Magnesium | 3.5 % |
| Fermented concentrate (enriched with yeast and metabolic compounds) | 10 % |
| Prebiotics (B-glucans & mannan oligosaccharide) | 3 % |
| Aromatic herbal compounds | 0.5 % |
| Other ingredients (toxin binder, buffer, and other additives) | |

**To be used for beef cattle**
**Recommended consumption amount:** 15 kg/t of concentrate
**Packaging**: 25 kg 3-layer composite packs

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# MultiAct-C®

## Mineral-vitamin premix for suckling calves (0.5%)


**Beneficial effects:**

- Reduction of diarrhea, gastrointestinal disorders, and metabolic diseases
- Improving the function of immune system and reduction of mortality
- Improving feed efficiency and growth rate Accelerating the development of
- gastrointestinal tract and increasing the nutrient absorption

**To be used for suckling calves**

**Recommended consumption amount:** 5 to 10 g/animal/d (mixed in milk)

**Packaging**: 25 kg 3-layer composite packs; 5 and 10 kg buckets

| Ingredients | | |
|---|---|---|
| Beneficial microbes (at least $10^8$ cfu/g) | *S. cervisiae*<br>*L. pentosus*<br>*L. plantarum*<br>*L. casei*<br>*L. rhamnosus*<br>*B. subtilis*<br>*B. lichiiformis*<br>*B. coagulans* | |
| Microbial metabolites | Enzymes (protease, xylanase, amylase)<br>Organic acids (lactate, acetate, propionate, butyrate)<br>Bioactive peptides | |
| Vitamins | Vitamin A | 4000000 Iu/kg |
| | Vitamin D3 | 320000 Iu/kg |
| | Vitamin E | 16000 mg/kg |
| | Vitamin K | 400 mg/kg |
| | Vitamin B1 | 1600 mg/kg |
| | Vitamin B2 | 1280 mg/kg |
| | Vitamin B3 | 4800 mg/kg |
| | Vitamin B5 | 6000 mg/kg |
| | Vitamin B6 | 1300 mg/kg |
| | Vitamin B7 | 40 mg/kg |
| | Vitamin B9 | 100 mg/kg |
| | Vitamin B12 | 16 mg/kg |
| | Vitamin C | 120000 mg/kg |
| Prebiotics | B-glucans<br>Xylooligosaccharide<br>Mannan oligosaccharide | |
| Organic minerals | Organic calcium (amino Ca) | about 5 percent of daily requirement |
| | Organic zinc (Amino Zn) | about 30 percent of daily requirement |
| | Organic manganese (Amino Mn) | about 30 percent of daily requirement |
| | Organic copper (Amino Cu) | about 30 percent of daily requirement |
| | Organic iron (Amino Fe) | about 30 percent of daily requirement |
| | Organic cobalt (Amino Co) | about 30 percent of daily requirement |
| | Selenium-methionine (Amino Se) | about 30 percent of daily requirement |
| | Chromium-methionine (Amino Cr) | 100 percent of daily requirement |

# Yeasto-Mix®

## Alive yeasts
## (enriched concentrate for ruminants)

This product is consisted of alive yeasts, their media and produced metabolites, mixed with a concentrated carrier. The population of alive yeasts is at least $10^8$ cfu/g. Usage of this product in the diet of ruminants improves the development of rumen structure, development of microbial flora of the rumen, and adjustment of the pH of rumen. Therefore, it improves the feed efficacy, milk production, and finally the economic yield of the herd.

**Ingredients**

Yeast (S. cervisiae) at least $10^8$ cfu/g

Prebiotics (B-glucans & mannan oligosaccharide)

Media and microbial metabolites

**Storing conditions**: at 15 to 25 degrees centigrade, on the pallet; keep away from direct sunlight, and out of reach of birds and insects

**Beneficial effects:**

- Adjustment of the pH of rumen, and improving the digestibility of the fiber in the diet.
- Improving the milk production and increasing the percentage of fat in the milk, even in the heat stress
- Improving the growth, development, and function of the rumen

**To be used for ruminants**

**Recommended consumption amount:**
1 to 2 kg/t of diet

**Packaging**: 25 kg 3-layer composite packs; 10 kg buckets

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KNOWLEDGE-BASED CO.

**Ariana**
**knowledge-based company**

# Producer of advanced feed additives for ruminants, poultry, and aquatic animals


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