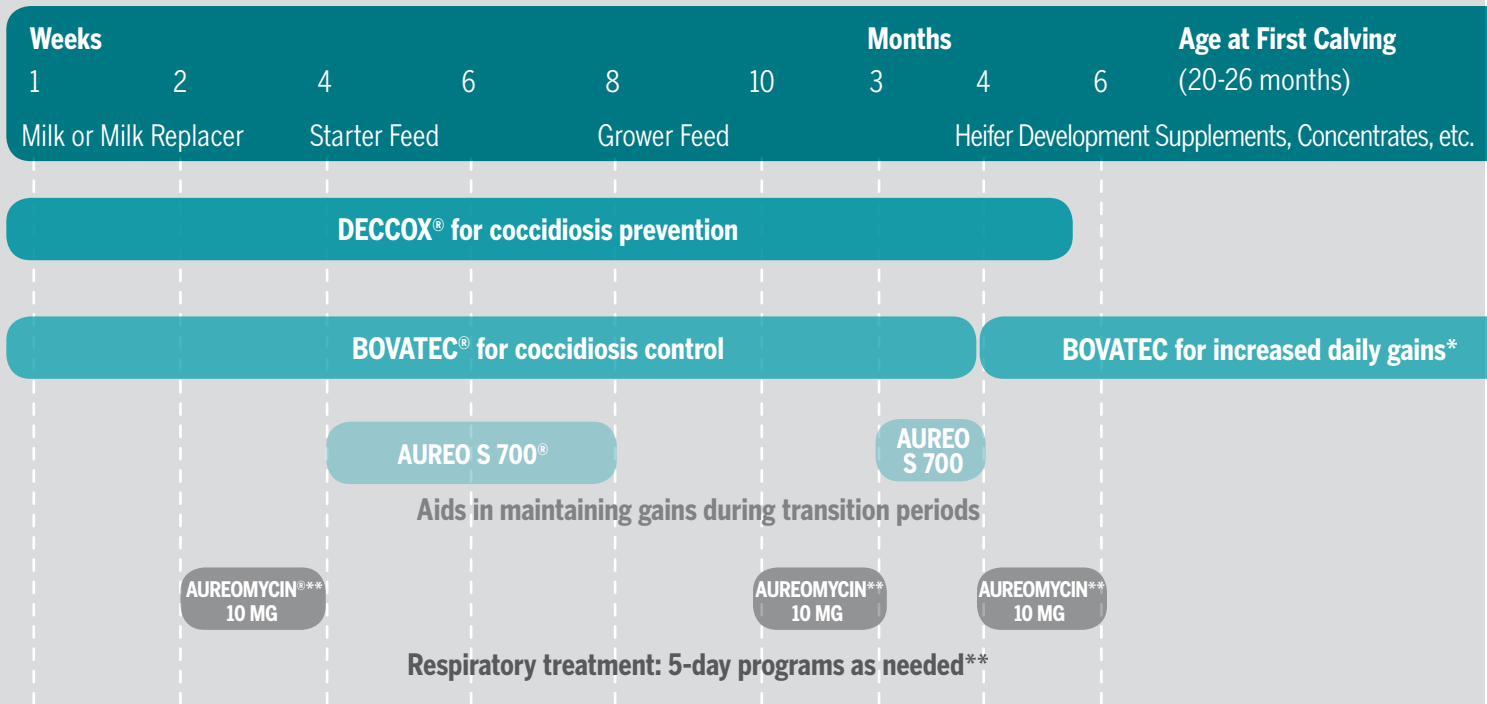


FEED ADDITIVE PRODUCTS OVERVIEW

This chart represents herd health options that include feed additives from Zoetis. When building your herd health program, always follow label directions and work closely with your nutritionist or veterinarian.†



*In confined heifers up to 800 lbs., and pastured heifers.
 **Use only as needed and per label directions; timing shown for treatments is a sample only.
 †Extra-label use of these feed additive products is prohibited by AMDUCA.

FOR MORE INFORMATION AND TO DISCUSS THE PRODUCTS THAT BEST FIT YOUR OPERATION, CONTACT YOUR ZOETIS REPRESENTATIVE, FEED SUPPLIER OR NUTRITIONIST.

References:
¹ NAHMS Dairy Report 2007. Part I: Reference of Dairy Cattle Health and Management Practices in the United States. Section 1:94.
² Dausgschies A, Najdrowski M. Eimeriosis in Cattle: Current Understanding. *J Vet Med B Infect Dis Vet Public Health* 2005;52(10):417-427.
³ Ramsey HA, Whitlow LW, McDaniel BT, Ducharme GA. Protective effect of decoquinate for preruminant Holstein calves in relation to serum Ig. *J Dairy Sci* 1991;74(Suppl.1):273.
⁴ Ramsey HA, Whitlow LW, McDaniel BT, Ducharme GA. Productive effect of decoquinate for preruminant Holstein calves in relation to serum Ig. *J Dairy Sci* 1991;74:243.
⁵ Anderson KL, et al. Performance and ruminal changes of early weaned calves fed lasalocid. *J Anim Sci* 1988;66:806.
⁶ Russell JB, Strobel HJ. Effect of Ionophores on ruminal fermentation. *App and Env Microbiology* 1989;Jan:1-6.
⁷ Steen TM, et al. Effects of lasalocid and undegradable protein on growth and body composition of Holstein heifers. *J Dairy Sci* 1992;75:2517-23.

DAIRY WELLNESS MAKES A DIFFERENCE™





FEED ADDITIVES FOR DAIRY CALVES AND HEIFERS

Deccox®

Bovatec®

Aureo S 700®

Aureomycin®

PROTECTION AND PERFORMANCE FOR YOUR DAIRY



Raising replacement heifers is one of the biggest investments on any dairy operation. Incorporating feed additive products into your herd health and nutrition programs can help calves and heifers stay healthy, so they can enter the milking string and return your investment sooner.

It only makes sense to protect your assets at every stage of their life. In successful dairies, it's critical to:

- Combat enteric and respiratory challenges in calves
- Boost performance in older heifers

PRODUCT USE GUIDE



AUREOMYCIN

AUREOMYCIN Crumbles	Body Weight and Recommended Amounts (lbs.)	
	100	500
2 grams	0.50	2.50
4 grams	0.25	1.25
10 grams	0.10	0.50

FOR DAIRY BEEF CATTLE:

Product options include AUREOMYCIN + BOVATEC for broad-spectrum antibacterial protection plus performance improvement.

DECCOX

DECCOX Crumbles	Body Weight and Recommended Amounts (lbs.)	
	100	500
1x (0.227 grams)	0.10	0.50
2.5x (0.568 grams)	0.04	0.20
10x (2.27 grams)	0.01	0.05

AUREO S 700

AUREO S 700 Crumbles	Use per Head (oz.)	Use per 100 Head (lbs.)	1 Pound of Crumbles Medicates Head
2 grams	2.80	17.50	5.70
3.5 grams	1.60	10.00	10.00

DECCOX-M

DECCOX-M*	5 Calves	10 Calves	20 Calves	40 Calves	80 Calves
75 lbs.	1 Tbsp.	2 Tbsp.	¼ cup	½ cup	1 cup
100 lbs.	4 tsp.	8 tsp.	⅓ cup	⅔ cup	1 ⅓ cups
150 lbs.	2 Tbsp.	¼ cup	½ cup	1 cup	2 cups
200 lbs.	8 tsp.	⅓ cup	⅔ cup	1 ⅓ cups	2 ⅔ cups

*This is a measurement of volume not weight. Do not convert to ounces.

BOVATEC

Coccidiosis Control Claim

Increased Rate of Weight Gain**

BOVATEC Product Concentration	Body Weight and Required Amount (lbs.)			Amount Required (lbs.)
	100	400	800	>800
1,440 g/ton	0.069	0.277	0.505	0.278
1,600 g/ton	0.063	0.25	0.455	0.025
4,000 g/ton	0.022	0.1	0.182	0.100
6,000 g/ton	0.015	0.002	0.121	0.067

**60 to 300 mg/head/day for increased rate of weight gain. This chart assumes target dose is 200 mg/head/day.

TREAT RESPIRATORY DISEASE WITH CONVENIENCE, FLEXIBILITY AND LESS HANDLING

As heifers mature, costs related to preventing and controlling respiratory losses can add up quickly. AUREOMYCIN is a cost-effective, five-day program (that can be repeated as necessary) for the treatment of respiratory disease. AUREOMYCIN is approved for use in combination with DECCOX and BOVATEC.



FEED ADDITIVE PROGRAM FOR DAIRY CALVES AND HEIFERS

Product	Dose	Indications for Use	Formulation
DECCOX® (decoquinate) and DECCOX-M	22.7 mg/100 lbs. body weight	Prevention of coccidiosis	DECCOX is included in milk replacer, starter and grower feeds DECCOX-M can be added on farm to whole milk
AUREOMYCIN® (chlortetracycline)	10 mg/lb. body weight	Treatment of respiratory disease*	Crumbles for top-dress or on-farm mixing Complete feeds, supplements or concentrates
BOVATEC® (lasalocid)	1 mg/2.2 lbs. body weight/day 60-360 mg lasalocid/head/day	Control of coccidiosis Increased rate of weight gain	Complete feeds, supplements or concentrates Complete feeds, supplements (including BOVATEC 2.2), and concentrates
AUREO S 700® (chlortetracycline and sulfamethazine)	350 mg + 350 mg sulfamethazine/head/day	Aids in the maintenance of weight gains in the presence of respiratory disease	Crumbles for on-farm mixing Can be included in starter feeds

*AUREOMYCIN for treatment of respiratory disease should be fed for not more than five days per treatment period. Multiple five-day programs can be fed with a 24-hour break between treatment periods. BOVATEC is approved for use in heifers up to 800 lbs. in confined housing. BOVATEC is approved for use in pastured heifers.

EASE OF USE

Feed additives are available in a wide range of feed types, which can be ordered from many suppliers:

- Milk replacer
- Calf starter
- Calf grower
- Mineral concentrate and/or supplements
- Crumbles provide the flexibility to add medication by top-dressing or on-farm mixing



DECCOX is approved for use in veal calf production and, as a nonantibiotic, in select natural programs.

UNWEANED CALVES

HELP PREVENT AND CONTROL ENTERIC DISEASES

Enteric diseases account for more than 50 percent of unweaned calf mortality.¹ Coccidiosis is a prevalent enteric disease^{2,3} that:

- Damages intestinal lining
- Limits calves' ability to absorb nutrients critical to growth and immune function

Which feed additive product is right for you?

	Coccidiosis prevention	Coccidiosis control
Milk replacer	DECCOX® (decoquinatate)	BOVATEC® (lasalocid)
Whole milk	DECCOX-M	

DECCOX (decoquinatate) helps prevent coccidiosis:

- Calves fed DECCOX gained 12 pounds more than control calves when weighed on Day 70⁴

DECCOX-M (decoquinatate) is the only medication labeled for coccidiosis prevention and approved for use in whole milk.

BOVATEC (lasalocid) helps control coccidiosis.



DECCOX-M is the only medication labeled for coccidiosis prevention and approved for use in whole milk.

PROTECT AGAINST RESPIRATORY DISEASE, HELP TRANSITIONING CALVES THRIVE

After weaning, respiratory disease accounts for almost half of calf mortality.¹ AUREO S 700® (*chlortetracycline and sulfamethazine*), fed for 28 days around weaning or during transition times, aids in the maintenance of weight gains in the presence of respiratory disease.



WEANED CALVES

BRIDGE THE GAP TO MAINTAIN THE GAIN

Gaps in coccidiosis protection can occur when:

- Transitioning from anticoccidial medication in milk to starter feeds
- Milk and starter medications are not the same

To help ensure calves receive a full anticoccidial dose, milk or milk replacer medication should match starter feed medication:

Milk Replacer	Starter Feed
DECCOX® (decoquinate) DECCOX-M	DECCOX
BOVATEC® (lasalocid)	BOVATEC

What to use in grower feed?

- DECCOX for calves under heavy coccidiosis pressure
- BOVATEC for control of coccidiosis, improved feed efficiency and increased rate of gain as a result of ruminal development⁵
- AUREOMYCIN® (*chlortetracycline*) for treatment of respiratory disease
 - Approved for use in combination with DECCOX and BOVATEC

DEVELOPING HEIFERS

HELP ENHANCE PERFORMANCE AND PROFITABILITY

Now that heifer immune systems are developed, monitoring susceptibility to disease takes a back seat to ensuring that heifers continue development momentum.

INCLUDE BOVATEC IN HEIFER NUTRITION PROGRAMS

As part of a well-balanced feeding program, BOVATEC enhances rumen efficiency resulting in increased rate of weight gain.⁶

- Heifers 8-24 months of age fed BOVATEC reduced age at first breeding by 21 days⁷
- That's 21 fewer days to feed and care for each heifer before she joins the milking string and starts to return on her investment

BOVATEC 2.2 — THE ADVANTAGES OF BOVATEC WITH THE CONVENIENCE OF A BLOCK.

Like BOVATEC, BOVATEC 2.2 can increase average daily gain (ADG) and profitability in a convenient block.

- BOVATEC 2.2 allows you to easily integrate an ionophore into an existing nonmedicated supplement for heifers on pasture*
- Can improve profit potential by increasing returns from pasture resources

*Supplement programs should not contain salt when fed in combination with BOVATEC 2.2.



BOVATEC 2.2 — increase ADG and profitability for heifers on pasture.