

# MGA<sup>®</sup> 500

## Type A Liquid Medicated Article

### Product Description

MGA<sup>®</sup> (melengestrol acetate) medicated feed additive is an in-feed product for the suppression of estrus (heat) in beef and dairy heifers. In beef heifers confined for slaughter, MGA can be mixed with feed to increase rate of weight gain and improve feed efficiency. MGA 500 Type A liquid medicated article is a synthetic progestin containing 500 mg of melengestrol acetate per pound of product.

### Indications for Use

- Growing beef heifers fed in confinement for slaughter: For increased rate of weight gain, improved feed efficiency, and suppression of estrus (heat).
- Replacement beef and dairy heifers: For suppression of estrus (heat).

### FDA Status

- Category I drug and does not require a feed mill license for manufacture of medicated feeds.
- No Veterinary Feed Directive (VFD) required.
- Approved for use in combination with:
  - **Beef:** Actogain<sup>®</sup> + Monensin; Actogain + Monensin + Tylosin; Aureomycin<sup>®</sup>; Aureomycin + Bovatec<sup>®</sup>; Bovatec; Bovatec + Tylosin; Experior<sup>™</sup>; Experior + Rumensin<sup>®</sup>; Experior + Rumensin + Tylan<sup>®</sup>; Monensin; Monensin + Tylosin; Tylosin.\*†
  - **Dairy:** Aureomycin; Aureomycin + Bovatec.\*†

### Key Points

- Effective at suppressing estrus in heifers.
- Improves feed conversion and average daily gain in beef heifers fed in confinement for slaughter.
- No negative impact on feed intake.<sup>1</sup>
- Suppresses heat cycles, which reduces riding/mounting and improves animal well being.
- Significantly reduces dark cutters and increases the percentage of cattle grading choice and prime.<sup>1</sup>
- Liquid formulation designed for accurate dosing in liquid feed systems.
- No withdrawal period is required when used according to labeling.

### Packaging

- 40-pound liquid drum container.

*See reverse side for complete non-combination use directions, product claims and additional information on this product.*

\* Monensin = Rumensin<sup>®</sup> or Monovet<sup>®</sup> 90; Tylosin = Tylan<sup>®</sup> or Tylovet<sup>®</sup>

† Combinations with Aureomycin, Tylan or Tylovet require a valid veterinary feed directive.

<sup>1</sup> Perret, et al., 2008. Can. Vet. Ther. 9(3):223-240.

## Beef and Dairy Information: MGA® 500 — Type A Liquid Medicated Article

<b>Each Pound Contains: Active Drug Ingredient</b>	Melengestrol Acetate 500 mg (as melengestrol acetate and its propylene glycol ketal)																																																																																																																		
<b>Indications for Use</b>	For increased rate of weight gain, improved feed efficiency, and suppression of estrus (heat) in growing beef heifers fed in confinement for slaughter. For suppression of estrus (heat) in replacement beef and dairy heifers.																																																																																																																		
<b>Directions for Use</b>	<p><b>Growing Beef Heifers Fed in Confinement for Slaughter:</b> MGA 500 (melengestrol acetate Type A liquid medicated article) should be thoroughly mixed in liquid Type C medicated feed which must be fed at 0.5 to 2 pounds per head daily to provide 0.25 to 0.5 mg of melengestrol acetate per head per day. Average daily intakes approximating the middle of this range provide the most optimal and economical improvements in rate of gain and feed utilization. Constant daily intakes of 0.35 to 0.5 mg per head per day give a high degree of estrus suppression. Levels of 0.25 to 0.35 mg provide a lower but still effective degree of estrus suppression.</p> <p><b>Replacement Beef and Dairy Heifers:</b> MGA 500 should be thoroughly mixed in the supplement to provide 0.5 mg of melengestrol acetate per head per day.</p>																																																																																																																		
<b>Additional Recommendations</b>	<p><b>Not effective in steers and spayed heifers.</b> <b>Growing beef heifers fed in confinement for slaughter:</b> Withdrawal periods of three to five days or more should be avoided to prevent the possibility that the heifers may come into estrus (heat) at loading time.</p> <p><b>Replacement beef and dairy heifers:</b> Do not exceed 24 days of feeding of melengestrol acetate. A reduced conception rate can be expected if heifers are bred at estruses observed within 1 to 12 days after withdrawal of melengestrol acetate, whereas heifers bred at subsequent observed estruses are expected to have normal conception rates.</p>																																																																																																																		
<b>Mixing Directions</b>	<p>Liquid Type B and C medicated feeds containing melengestrol acetate must have a pH of 4 to 8 and their labels must bear appropriate mixing directions. Mixing directions for liquid Type B or C feeds stored in recirculation tank systems are: "Recirculate immediately prior to use for no less than 10 minutes, moving not less than 1 percent of the tank contents per minute from the bottom of the tank to the top. Recirculate daily, as directed in this paragraph even when the Type B (or C) feed is not used." Mixing directions for liquid Type B and C feeds stored in mechanical, air or other agitation-type tank systems are: "Agitate immediately prior to use for not less than 10 minutes, creating a turbulence at the bottom of the tank that is visible at the top. Agitate daily, as directed in this paragraph, even when the Type B (or C) feed is not used."</p> <p>Intermediate medicated feeds should not be made from MGA 500 except as a part of a continuous mixing operation to make a complete liquid Type B or Type C medicated feed.</p> <p>Thoroughly mix 0.5 to 4 pounds of MGA 500 per ton of a non-medicated feed to prepare a Type C medicated feed containing 0.25 to 2 grams of melengestrol acetate per ton. The following Table may be used as a guide in determining the amount of MGA 500 to be added to prepare a ton of Type C medicated feed.</p> <table border="1"> <thead> <tr> <th rowspan="2">Amount of Type C Feed Fed (lb/head/day)</th><th rowspan="2">Melengestrol Acetate (mg/head/day)</th><th colspan="2">MGA 500 Per Ton of Type C Feed</th><th rowspan="2">Amount of Type C Feed Fed (lb/head/day)</th><th rowspan="2">Melengestrol Acetate (mg/head/day)</th><th colspan="2">MGA 500 Per Ton of Type C Feed</th></tr> <tr> <th>When Added by Weight (lb)</th><th>When Added by Volume (mL)</th><th>When Added by Weight (lb)</th><th>When Added by Volume (mL)</th></tr> </thead> <tbody> <tr><td>0.5</td><td>0.25</td><td>2</td><td>876</td><td>1.5</td><td>0.25</td><td>0.66</td><td>289</td></tr> <tr><td>0.5</td><td>0.3</td><td>2.4</td><td>1,051</td><td>1.5</td><td>0.3</td><td>0.8</td><td>350</td></tr> <tr><td>0.5</td><td>0.35</td><td>2.8</td><td>1,226</td><td>1.5</td><td>0.35</td><td>0.93</td><td>407</td></tr> <tr><td>0.5</td><td>0.4</td><td>3.2</td><td>1,402</td><td>1.5</td><td>0.4</td><td>1.07</td><td>469</td></tr> <tr><td>0.5</td><td>0.45</td><td>3.6</td><td>1,577</td><td>1.5</td><td>0.45</td><td>1.2</td><td>526</td></tr> <tr><td>0.5</td><td>0.5</td><td>4</td><td>1,752</td><td>1.5</td><td>0.5</td><td>1.33</td><td>582</td></tr> <tr><td>1</td><td>0.25</td><td>1</td><td>438</td><td>2</td><td>0.25</td><td>0.5</td><td>219</td></tr> <tr><td>1</td><td>0.3</td><td>1.2</td><td>526</td><td>2</td><td>0.3</td><td>0.6</td><td>263</td></tr> <tr><td>1</td><td>0.35</td><td>1.4</td><td>613</td><td>2</td><td>0.35</td><td>0.7</td><td>307</td></tr> <tr><td>1</td><td>0.4</td><td>1.6</td><td>701</td><td>2</td><td>0.4</td><td>0.8</td><td>350</td></tr> <tr><td>1</td><td>0.45</td><td>1.8</td><td>788</td><td>2</td><td>0.45</td><td>0.9</td><td>394</td></tr> <tr><td>1</td><td>0.5</td><td>2</td><td>876</td><td>2</td><td>0.5</td><td>1</td><td>438</td></tr> </tbody> </table> <p>Type B medicated feed containing 4 to 10 grams melengestrol acetate per ton may be manufactured by thoroughly mixing 8 to 20 lbs of MGA 500 (melengestrol acetate Type A liquid medicated article) with 1,992 to 1,980 lbs of non-medicated feed. Labeling for such Type B feed shall contain directions for manufacturing Type C medicated feeds containing 0.25 to 2 grams melengestrol acetate per ton (0.125 to 1 mg/lb). The Type C medicated feed, containing melengestrol acetate, must be top dressed on grain or roughage or mixed with a complete ration at the rate of 0.5 to 2 pounds per head per day. Good manufacturing practice regulations must be adhered to in manufacturing feeds containing MGA 500.</p>							Amount of Type C Feed Fed (lb/head/day)	Melengestrol Acetate (mg/head/day)	MGA 500 Per Ton of Type C Feed		Amount of Type C Feed Fed (lb/head/day)	Melengestrol Acetate (mg/head/day)	MGA 500 Per Ton of Type C Feed		When Added by Weight (lb)	When Added by Volume (mL)	When Added by Weight (lb)	When Added by Volume (mL)	0.5	0.25	2	876	1.5	0.25	0.66	289	0.5	0.3	2.4	1,051	1.5	0.3	0.8	350	0.5	0.35	2.8	1,226	1.5	0.35	0.93	407	0.5	0.4	3.2	1,402	1.5	0.4	1.07	469	0.5	0.45	3.6	1,577	1.5	0.45	1.2	526	0.5	0.5	4	1,752	1.5	0.5	1.33	582	1	0.25	1	438	2	0.25	0.5	219	1	0.3	1.2	526	2	0.3	0.6	263	1	0.35	1.4	613	2	0.35	0.7	307	1	0.4	1.6	701	2	0.4	0.8	350	1	0.45	1.8	788	2	0.45	0.9	394	1	0.5	2	876	2	0.5	1	438
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<p><b>WITHDRAWAL PERIOD:</b> No withdrawal period is required when used according to labeling.</p> <p><b>User Safety Warnings:</b> Not for use in humans. Keep out of reach of children.</p>																																																																																																																			

For further manufacturing only.

Storage and Handling:

Store at 4° - 25°C (39° - 77°F). Excursions permitted up to 40°C (104°F).

Destroy empty container. Do not reuse.

Approved by FDA under NADA # 039-402

**To learn more about MGA® 500  
talk with a Phibro expert at**

800-677-4623 or visit [www.pahc.com](http://www.pahc.com)