Zilpaterol, Monensin, and Tylosin
Type B Medicated Cattle Feed

For Use in Cattle Feeds Only

Do Not Feed Undiluted.

Important: Must be thoroughly mixed into feed before use.

For increased rate of weight gain, improved feed efficiency, increased carcass leanness, prevention and control of coccidiosis due to *Eimeria bovis and E. zuernii* and reduction of incidence of liver abscesses caused by *Fusobacterium necrophorum* and *Arcanobacterium (Actinomyces) pyogenes* in cattle fed in confinement for slaughter for the last 20 to 40 days on feed.

ACTIVE DRUG INGREDIENTS

Zilpaterol hydrochloride	68 to 680 g/ton*
Monensin, USP	100 to 4000 g/ton*
Tylosin phosphate	80 to 1000 g/ton*

GUARANTEED ANALYSIS

Crude Protein, not less than	_____%
Non-Protein Nitrogen (NPN)[1], not more than	_____%
Crude Fat, not less than	_____%
Crude Fiber, not more than	_____%
Calcium, not less than	_____%
Calcium, not more than	_____%
Phosphorus, not less than	_____%
Salt[2], not less than	_____%
Salt[2], not more than	_____%
Sodium[3], not less than	_____%
Sodium[3], not more than	_____%
Potassium, not less than	_____%
Vitamin A[2,4], not less than	_____I.U./lb.
Dry Matter, not less than	60%
Dry Matter, not more than	75%
pH	4.5 to 6.0

[1]When added.
[2]If added.
[3]Shall be guaranteed only when total sodium exceeds that furnished by the maximum salt guarantee.
[4]Other than precursors of Vitamin A.

INGREDIENTS

Each ingredient must be named in accordance with the names and definitions adopted by the Association of American Feed Control Officials.

MIXING DIRECTIONS

Mix 20 to 200 pounds of Type B feed with 1980 to 1800 pounds of unmedicated feed, respectively to yield a Type C feed with 6.8 grams per ton of zilpaterol, 10 to 40 grams per

*Final printed label on formulated Type B medicated feed must bear a single concentration of each drug

ton of monensin and 8 to 10 grams per ton of tylosin. It is recommended that Type B feeds containing more than 1440 g/ton of monensin be further diluted before mixing into the total mixed ration.

CAUTION

Do not allow horses or other equines access to feeds containing monensin. Ingestion of monensin by horses has been fatal. Monensin medicated cattle feed is safe for use in cattle only. Consumption by unapproved species may result in toxic reactions. Feeding undiluted or mixing errors resulting in high concentrations of monensin has been fatal to cattle. Must be thoroughly mixed in feeds before use. Do not feed undiluted. Do not exceed the levels of monensin recommended in the feeding directions, as reduced average daily gains may result. If feed refusals containing monensin are fed to other groups of cattle, the concentration of monensin in the refusals and amount of refusals fed should be taken into consideration to prevent monensin overdosing.

Zilpaterol hydrochloride is not for animals intended for breeding. Do not allow horses or other equines access to feed containing zilpaterol.

WARNING

A withdrawal time has not been established for pre-ruminating calves. Do not use in calves to be processed for veal.

The active ingredient in Zilmax® is zilpaterol hydrochloride, a $beta_2$-adrenergic agonist. Not for use in humans. An anti-dust process has been applied to the drug product, Zilmax®, in order to greatly reduce inhalation risk. Extended handling tasks with the potential for dust generation require respiratory protection. Wear appropriate skin protection (e.g., impervious gloves, apron, overalls) if there is a potential for extended skin contact. Wear protective eyewear, if there is a potential for eye contact. If accidental eye contact occurs, immediately rinse with water and consult a physician.

→ **WITHDRAWAL PERIOD** 3 days ←

YOU MAY NOTICE: Animals receiving zilpaterol hydrochloride may exhibit increased respiratory rate as well as elevated levels of creatine phosphokinase (CPK) and creatinine

MANUFACTURED BY

BLUE BIRD FEED MILL
Any town, USA 12345

Zilmax® is the trademark of Intervet.

Net Weight on Bulk Invoice

Zilpaterol, Monensin, and Tylosin
Liquid Type B Medicated Cattle Feed

For Use in Cattle Feeds Only

Do Not Feed Undiluted.

Important: Must be thoroughly mixed into feed before use.

For increased rate of weight gain, improved feed efficiency, increased carcass leanness, prevention and control of coccidiosis due to *Eimeria bovis and E. zuernii* and reduction of incidence of liver abscesses caused by *Fusobacterium necrophorum* and *Arcanobacterium (Actinomyces) pyogenes* in cattle fed in confinement for slaughter for the last 20 to 40 days on feed.

ACTIVE DRUG INGREDIENTS

Zilpaterol hydrochloride	68 to 680 g/ton*
Monensin, USP	100 to 4000 g/ton*
Tylosin phosphate	80 to 1000 g/ton*

GUARANTEED ANALYSIS

Crude Protein, not less than	_____%
Non-Protein Nitrogen (NPN)[1], not more than	_____%
Crude Fat, not less than	_____%
Crude Fiber, not more than	_____%
Calcium, not less than	_____%
Calcium, not more than	_____%
Phosphorus, not less than	_____%
Salt[2], not less than	_____%
Salt[2], not more than	_____%
Sodium[3], not less than	_____%
Sodium[3], not more than	_____%
Potassium, not less than	_____%
Vitamin A[2,4], not less than	_____I.U./lb.

[1]When added.
[2]If added.
[3]Shall be guaranteed only when total sodium exceeds that furnished by the maximum salt guarantee.
[4]Other than precursors of Vitamin A.

INGREDIENTS

Each ingredient must be named in accordance with the names and definitions adopted by the Association of American Feed Control Officials.

MIXING DIRECTIONS

For liquid feeds stored in recirculating tank systems:
Recirculate immediately prior to use for not 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 described even when not used.

*Final printed label on formulated Type B medicated feed must bear a single concentration of each drug

For liquid feeds stored in mechanical, air or other agitation-type tank systems:
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 described even when not used.

Mix 20 to 200 pounds of Type B feed with 1980 to 1800 pounds of unmedicated feed, respectively to yield a Type C feed with 6.8 grams per ton of zilpaterol, 10 to 40 grams per ton of monensin and 8 to 10 grams per ton of tylosin. It is recommended that Type B feeds containing more than 1440 g/ton of monensin be further diluted before mixing into the total mixed ration.

CAUTION

Inadequate mixing (recirculation or agitation) of monensin liquid Type B medicated feed has resulted in increased monensin concentration, which has been fatal to cattle. Do not allow horses or other equines access to feeds containing monensin. Ingestion of monensin by horses has been fatal. Monensin medicated cattle feed is safe for use in cattle only. Consumption by unapproved species may result in toxic reactions. Feeding undiluted or mixing errors resulting in high concentrations of monensin has been fatal to cattle. Must be thoroughly mixed in feeds before use. Do not feed undiluted. Do not exceed the levels of monensin recommended in the feeding directions, as reduced average daily gains may result. If feed refusals containing monensin are fed to other groups of cattle, the concentration of monensin in the refusals and amount of refusals fed should be taken into consideration to prevent monensin overdosing.

Zilpaterol hydrochloride is not for animals intended for breeding. Do not allow horses or other equines access to feed containing zilpaterol.

WARNING

A withdrawal time has not been established for pre-ruminating calves. Do not use in calves to be processed for veal.

The active ingredient in Zilmax® is zilpaterol hydrochloride, a $beta_2$-adrenergic agonist. Not for use in humans. An anti-dust process has been applied to the drug product, Zilmax®, in order to greatly reduce inhalation risk. Extended handling tasks with the potential for dust generation require respiratory protection. Wear appropriate skin protection (e.g., impervious gloves, apron, overalls) if there is a potential for extended skin contact. Wear protective eyewear, if there is a potential for eye contact. If accidental eye contact occurs, immediately rinse with water and consult a physician.

→ **WITHDRAWAL PERIOD** 3 days ←

YOU MAY NOTICE: Animals receiving zilpaterol hydrochloride may exhibit increased respiratory rate as well as elevated levels of creatine phosphokinase (CPK) and creatinine

MANUFACTURED BY

BLUE BIRD FEED MILL
Any town, USA 12345

Expiration Date: [8 weeks after manufacture]

Zilmax® is the trademark of Intervet.

Net Weight on Bulk Invoice

Zilpaterol, Monensin, and Tylosin
Type C Medicated Cattle Feed

For Use in Cattle Feeds Only

For increased rate of weight gain, improved feed efficiency, increased carcass leanness, prevention and control of coccidiosis due to *Eimeria bovis and E. zuernii* and reduction of incidence of liver abscesses caused by *Fusobacterium necrophorum* and *Arcanobacterium (Actinomyces) progenes* in cattle fed in confinement for slaughter for the last 20 to 40 days on feed.

ACTIVE DRUG INGREDIENTS

Zilpaterol hydrochloride	6.8 g/ton*
Monensin, USP	10 to 40 g/ton*
Tylosin phosphate	8 to 10 g/ton*

GUARANTEED ANALYSIS

Crude Protein, not less than	_____%
Non-Protein Nitrogen (NPN)[1], not more than	_____%
Crude Fat, not less than	_____%
Crude Fiber, not more than	_____%
Calcium, not less than	_____%
Calcium, not more than	_____%
Phosphorus, not less than	_____%
Salt[2], not less than	_____%
Salt[2], not more than	_____%
Sodium[3], not less than	_____%
Sodium[3], not more than	_____%
Potassium, not less than	_____%
Vitamin A[2,4], not less than	_____I.U./lb.

[1]When added.
[2]If added.
[3]Shall be guaranteed only when total sodium exceeds that furnished by the maximum salt guarantee.
[4]Other than precursors of Vitamin A.

INGREDIENTS

Each ingredient must be named in accordance with the names and definitions adopted by the Association of American Feed Control Officials.

FEEDING DIRECTIONS

Feed continuously as sole ration to provide 60 to 90 mg/hd/day zilpaterol and 0.14 to 0.42 mg monensin/lb body weight per day, depending on the severity of the coccidiosis challenge, up to 480 mg/hd/day and 60 to 90 mg/hd/day tylosin for the last 20 to 40 days on feed.

*Final printed label on formulated Type C medicated feed must bear a single concentration of each drug

CAUTION

Do not allow horses or other equines access to feeds containing monensin. Ingestion of monensin by horses has been fatal. Monensin medicated cattle feed is safe for use in cattle only. Consumption by unapproved species may result in toxic reactions. Do not exceed the levels of monensin recommended in the feeding directions, as reduced average daily gains may result. If feed refusals containing monensin are fed to other groups of cattle, the concentration of monensin in the refusals and amount of refusals fed should be taken into consideration to prevent monensin overdosing.

Zilpaterol hydrochloride is not for animals intended for breeding. Do not allow horses or other equines access to feed containing zilpaterol.

WARNING

A withdrawal time has not been established for pre-ruminating calves. Do not use in calves to be processed for veal.

The active ingredient in Zilmax® is zilpaterol hydrochloride, a $beta_2$-adrenergic agonist. Not for use in humans. An anti-dust process has been applied to the drug product, Zilmax®, in order to greatly reduce inhalation risk. Extended handling tasks with the potential for dust generation require respiratory protection. Wear appropriate skin protection (e.g., impervious gloves, apron, overalls) if there is a potential for extended skin contact. Wear protective eyewear, if there is a potential for eye contact. If accidental eye contact occurs, immediately rinse with water and consult a physician.

→ **WITHDRAWAL PERIOD** 3 days ←

YOU MAY NOTICE: Animals receiving zilpaterol hydrochloride may exhibit increased respiratory rate as well as elevated levels of creatine phosphokinase (CPK) and creatinine

MANUFACTURED BY

BLUE BIRD FEED MILL
Any town, USA 12345

Zilmax® is the trademark of Intervet.

Net Weight on Bulk Invoice

THIS BLUEBIRD LABEL IS INTENDED FOR USE ONLY WITH MONENSIN, TYLOSIN AND ZILPATEROL

BAG OR BULK

HEIFER SUPPLEMENT
Type C Medicated Feed

For Beef and Dairy Heifers

INDICATIONS

Heifers Fed in Confinement for Slaughter: For Increased Rate of Weight Gain, Improved Feed Efficiency and Suppression of Estrus (Heat).

ACTIVE DRUG INGREDIENT

Melengestrol acetate .....0.125 – 1.0 mg/lb.*

GUARANTEED ANALYSIS

Crude Protein, not less than	_____%
Non-Protein Nitrogen (NPN)[1], not more than	_____%
Crude Fat, not less than	_____%
Crude Fiber, not more than	_____%
Calcium, not less than	_____%
Calcium, not more than	_____%
Phosphorus, not less than	_____%
Salt[2], not less than	_____%
Salt[2], not more than	_____%
Sodium[3], not less than	_____%
Sodium[3], not more than	_____%
Potassium, not less than	_____%
Vitamin A[2,4], not less than	_____I.U./lb.

[1]When added.
[2]If added.
[3]Shall be guaranteed only when total sodium exceeds that furnished by the maximum salt guarantee.
[4]Other than precursors of Vitamin A.

INGREDIENTS

Each ingredient must be named in accordance with the names and definitions adopted by the Association of American Feed Control Officials.

*Final printed label on formulated Type C medicated feed must bear a single concentration of this drug

DIRECTIONS FOR USE

Must be top dressed or mixed with a complete ration containing monensin (10 to 40 g/ton), tylosin (8 to 10 g/ton) and zilpaterol (6.8 g/ton).

Feed at the rate of 0.5-2.0 pound(s) per head per day (specify one level) to provide 0.25-0.5 mg melengestrol acetate per head per day (specify one level). Feed melengestrol acetate in this combination for the final 20 to 40 days on feed.

CAUTION

Melengestrol acetate is not effective in steers and spayed heifers.

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 the time of loading. You should consider feeding an approved medicated feed containing melengestrol acetate during the withdrawal time for this product to prevent heifers from coming into estrus at the time of loading.

MANUFACTURED BY

BLUE BIRD FEED MILL
Any town, USA 12345

Lot Number _____

Net Weight on Bulk Invoice

THIS BLUEBIRD LABEL IS INTENDED FOR USE ONLY WITH MONENSIN, TYLOSIN AND ZILPATEROL

LIQUID HEIFER SUPPLEMENT
Type C Medicated Feed

For Beef and Dairy Heifers

INDICATIONS

Heifers Fed in Confinement for Slaughter: For Increased Rate of Weight Gain, Improved Feed Efficiency and Suppression of Estrus (Heat).

ACTIVE DRUG INGREDIENT

Melengestrol acetate .....0.125 – 1.0 mg/lb.*

GUARANTEED ANALYSIS

Crude Protein, not less than	_____%
Non-Protein Nitrogen (NPN)[1], not more than	_____%
Crude Fat, not less than	_____%
Crude Fiber, not more than	_____%
Calcium, not less than	_____%
Calcium, not more than	_____%
Phosphorus, not less than	_____%
Salt[2], not less than	_____%
Salt[2], not more than	_____%
Sodium[3], not less than	_____%
Sodium[3], not more than	_____%
Potassium, not less than	_____%
Vitamin A[2,4], not less than	_____I.U./lb.
pH	4.0 to 8.0

[1]When added.
[2]If added.
[3]Shall be guaranteed only when total sodium exceeds that furnished by the maximum salt guarantee.
[4]Other than precursors of Vitamin A.

INGREDIENTS

Each ingredient must be named in accordance with the names and definitions adopted by the Association of American Feed Control Officials.

*Final printed label on formulated Type C medicated feed must bear a single concentration of this drug

DIRECTIONS FOR USE

Must be top dressed or mixed with a complete ration containing monensin (10 to 40 g/ton), tylosin (8 to 10 g/ton) and zilpaterol (6.8 g/ton).

Feed at the rate of 0.5-2.0 pound(s) per head per day (specify one level) to provide 0.25-0.5 mg melengestrol acetate per head per day (specify one level). Feed melengestrol acetate in this combination for the final 20 to 40 days on feed.

MIXING DIRECTIONS

Mixing directions for liquid Type 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 from the bottom of the tank to the top. Recirculate daily, as directed in this paragraph even when the Type C feed is not used." Mixing directions for liquid Type 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 C feed is not used."

.CAUTION

Melengestrol acetate is not effective in steers and spayed heifers.

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 the time of loading. You should consider feeding an approved medicated feed containing melengestrol acetate during the withdrawal time for this product to prevent heifers from coming into estrus at the time of loading.

MANUFACTURED BY

BLUE BIRD FEED MILL
Any town, USA 12345

Lot Number _____

Net Weight on Bulk Invoice