

Date of Approval: October 11, 2019

FREEDOM OF INFORMATION SUMMARY
ORIGINAL ABBREVIATED NEW ANIMAL DRUG APPLICATION

ANADA 200-659

Actogain™ and Monovet® and MGA®

**(ractopamine hydrochloride Type A medicated article) and
(monensin Type A medicated article) and (melengestrol acetate
Type A medicated article)**

**Type A medicated articles to be used in the manufacture of Type
C medicated feeds**

Heifers fed in confinement for slaughter

Original abbreviated new animal drug approval of a medicated feed combination for the
indications listed in Section I.L

Sponsored by:

Huvepharma EOOD

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I. GENERAL INFORMATION

A. File Number

ANADA 200-659

B. Sponsor

Huvepharma EOOD,
5th Floor, 3A Nikolay Haytov Str.,
1113 Sofia, Bulgaria

Drug Labeler Code: 016592

US Agent Name and Address:
Kelly Beers, Ph.D.
Huvepharma, Inc.
525 West Park Drive
Peachtree City, GA 30269

C. Proprietary Name

Actogain™ and Monovet® and MGA®

D. Drug Product Established Name

ractopamine hydrochloride Type A medicated article and monensin Type A medicated article and melengestrol acetate Type A medicated article

E. Pharmacological Categories

Actogain™: Beta adrenergic agonist
Monovet®: Ionophore, anticoccidial
MGA®: Steroid hormone

F. Dosage Form

Type A medicated articles for use in the manufacture of Type C medicated feeds.

G. Amount of Active Ingredients in Currently Marketed Products¹

Actogain™: 45.4 g/lb (100 g/kg) of ractopamine hydrochloride
Monovet®: 90.7 g/lb of monensin
MGA®: 200 mg/lb and 500 mg/lb of melengestrol acetate

H. How Supplied

Actogain™ (ractopamine hydrochloride Type A medicated article): 25 lb (11.34 kg) bags

¹ The sponsors of these individual currently marketed Type A medicated articles may have approvals for other strengths of these products that are for use in the same species and class, for the same indications, and at the same dosages, but are not currently marketing those strengths of these Type A medicated articles. Such strengths, when legally marketed, are also approved for use in the manufacture of Type C medicated feeds that are the subject of this approval.

Monovet® (monensin Type A medicated article): 55.12 lb (25 kg) bags
MGA® (melengestrol acetate Type A medicated article): 50 lb (22.7 kg) bags
(dry), 40 lb (18 kg) container (liquid)

I. Dispensing Status

OTC

J. Route of Administration

Oral

K. Species/Class

Heifers fed in confinement for slaughter

L. Indications and Dosage Regimens

1. For increased rate of weight gain, improved feed efficiency, increased carcass leanness and prevention and control of coccidiosis due to *Eimeria bovis* and *E. zuernii* in cattle fed in confinement for slaughter during the last 28 to 42 days on feed.
 - a. 9.8 to 24.6 g/ton of Actogain™ for increased rate of weight gain, improved feed efficiency and increased carcass leanness in cattle fed in confinement for slaughter during the last 28 to 42 days on feed.
 - b. 10 to 40 g/ton of Monovet® for improved feed efficiency and prevention and control of coccidiosis due to *Eimeria bovis* and *E. zuernii*.

Feed continuously as sole ration to provide 90 to 430 mg/hd/day ractopamine 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 monensin for the last 28 to 42 days on feed.

Increased benefit for improved feed efficiency, when Actogain™ and Monovet® are used together vs. individually cannot be assumed because demonstration of increased effectiveness was not required for approval of this generic combination or the RLNAD combination, NADA 141-234.

2. Heifers Fed in Confinement for Slaughter: For Increased Rate of Weight Gain, Improved Feed Efficiency and Suppression of Estrus (Heat). Please note this indication and dosage regimen are the same for the dry and liquid heifer supplement Type C medicated feed blue bird labels.
 - a. 0.125 to 1.0 mg/lb of MGA® for increased rate of weight gain, improved feed efficiency and suppression of estrus (heat).

Must be top dressed or mixed with a complete ration containing monensin (10 to 40 g/ton) and ractopamine (9.8 to 24.6 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 28 to 42 days on feed.

Increased benefit for improved feed efficiency, when Actogain™, Monovet®, and MGA® are used together vs. individually cannot be assumed because demonstration of increased effectiveness was not required for approval of this generic combination or the RLNAD combination, NADA 141-234.

M. Reference Listed New Animal Drug Combination

Optaflexx™ (ractopamine hydrochloride Type A medicated article) and Rumensin™ (monensin Type A medicated article) and MGA® (melengestrol acetate Type A medicated article); NADA 141-234; Elanco US Inc.

N. Approved Original Generic Type A Medicated Article

Monovet®; monensin Type A medicated article; ANADA 200-639; Huvepharma EOOD

O. Individual Type A medicated articles approved for use in the manufacture of the Type C combination medicated feeds in this application

Actogain™ (ractopamine hydrochloride Type A medicated article); ANADA 200-548; Zoetis Inc.

Monovet® (monensin Type A medicated article); ANADA 200-639; Huvepharma EOOD

MGA® (melengestrol acetate Type A medicated article); NADA 039-402; Zoetis Inc.

II. BIOEQUIVALENCE

Under the provisions of the Federal Food, Drug, and Cosmetic Act (FD&C Act), as amended by the Generic Animal Drug and Patent Term Restoration Act (GADPTRA) of 1988, an abbreviated new animal drug application (ANADA) may be submitted for a generic version of an approved new animal drug (reference listed new animal drug). New target animal safety and effectiveness data and human food safety data (other than tissue residue data) are not required for approval of an ANADA.

According to CVM's fourth policy letter issued on November 2, 1989, with regard to the implementation of GADPTRA, after the approval of an ANADA for a generic Type A medicated article, the generic sponsor is entitled to approval for all the feed-mixed combinations for which the RLNAD is approved. Bioequivalence and tissue residue studies are not required for the approval of the generic feed use combinations (Type B or C medicated feeds). Ractopamine hydrochloride is codified under 21 CFR 558.500, monensin is codified under 21 CFR 558.355, melengestrol acetate is codified under 21 CFR 558.342. The combination of ractopamine hydrochloride, monensin, and melengestrol acetate is codified under 21 CFR 558.500.

III. EFFECTIVENESS

CVM did not require effectiveness studies for this approval.

IV. TARGET ANIMAL SAFETY

CVM did not require target animal safety studies for this approval.

V. HUMAN FOOD SAFETY

The following are assigned to this product for heifers fed in confinement for slaughter:

A. Acceptable Daily Intake and Tolerances for Residues

The acceptable daily intake (ADI) for total residues of ractopamine hydrochloride is 1.25 micrograms *per* kilogram of body weight *per* day. The tolerances established for the feed use RLNAD apply to the generic feed use combination new animal drug product. A tolerance of 0.09 parts *per* million (ppm) is established for ractopamine hydrochloride (the marker residue) in liver (the target tissue), and 0.03 ppm in muscle, under 21 CFR 556.570.

The ADI for total residues of monensin is 12.5 micrograms *per* kilogram of body weight *per* day. The tolerances established for the feed use RLNAD apply to the generic feed use combination new animal drug product. A tolerance of 0.10 ppm is established for residues of monensin (the marker residue) in liver, and 0.05 ppm in muscle, kidney and fat, under 21 CFR 556.420.

An ADI is not cited for total residues of melengestrol acetate. The tolerances established for the feed use RLNAD apply to the generic feed use combination new animal drug product. A tolerance of 25 parts *per* billion (ppb) is established for residues of the parent compound, melengestrol acetate (the marker residue) in fat, under 21 CFR 556.380.

B. Withdrawal Period

Consistent with CVM's fourth policy letter issued on November 2, 1989, with regard to the implementation of GADPTRA, after the approval of an ANADA for a generic Type A medicated article, the generic sponsor is entitled to approval for all the feed-mixed combinations for which the RLNAD is approved. Tissue residue studies are not required for the approval of the generic feed use combinations (Type B or Type C medicated feeds).

To this end, the withdrawal period for the generic combination Type C medicated feeds are those previously assigned to the RLNAD feed use combination. When used together, Actogain™ (ractopamine hydrochloride Type A medicated article), Monovet® (monensin Type A medicated article) and MGA® (melengestrol acetate Type A medicated article) are approved with a 0-day withdrawal period.

C. Analytical Method for Residues

The validated analytical methods for analysis of residues of ractopamine, monensin and melengestrol acetate is on file at the Center for Veterinary Medicine, 7500 Standish Place, Rockville, MD 20855. To obtain a copy of the analytical method, please submit a Freedom of Information request to: <https://www.accessdata.fda.gov/scripts/foi/FOIRequest/requestinfo.cfm>.

VI. USER SAFETY

CVM did not require user safety studies for this original approval.

The product labeling contains the following information regarding safety to humans handling, administering, or exposed to the Type C medicated feed:

The active ingredient in Actogain, ractopamine hydrochloride, is a beta-adrenergic agonist. Individuals with cardiovascular disease should exercise special caution to avoid exposure. Not for use in humans. Keep out of the reach of children. The Actogain 45 formulation (Type A Medicated Article) poses a low dust potential under usual conditions of handling and mixing. When mixing and handling Actogain, use protective clothing, impervious gloves, protective eyewear, and a NIOSH-approved dust mask. Operators should wash thoroughly with soap and water after handling. If accidental eye contact occurs, immediately rinse eyes thoroughly with water. If irritation persists, seek medical attention. The material safety data sheet contains more detailed occupational safety information. To report adverse effects, access medical information, or obtain additional product information, call 1-888-963-8471.

VII. AGENCY CONCLUSIONS

This information submitted in support of this ANADA satisfies the requirements of section 512(n) of the FD&C Act and demonstrates that Actogain™, Monovet®, and MGA®, when used according to the label, are safe and effective.

Additionally, data demonstrate that residues in food products derived from heifers fed in confinement for slaughter administered Actogain™, Monovet®, and MGA® will not represent a public health concern when the combination medicated feed is used according to the label.