Diclazuril 0.5% Premix

Feed Grade Synthetic Triazine Coccidiocide | Chinese Pharmacopoeia (CPV 2020) Standard

Active: Diclazuril (0.5% / 5,000 ppm) **CAS No.:** 101831-37-2 **Formula:** C17H9Cl3N4O2 **Standard:** CPV 2020 **Appearance:** Yellow Granule

Withdrawal: Chickens 5d | Rabbits 14d

Mode of Action & Broad-Spectrum Cidal Dynamics

- **Triazine Chemical Coccidiocide:** Unlike coccidiostats that solely arrest growth, Diclazuril exerts true cidal destruction across multiple life-cycle phases of *Eimeria*.
- **Day 1–2 Peak Action Window:** Primary activity peaks against invaded sporozoites and 1st-generation schizonts within the first 48 hours of infection, stopping gut mucosal damage.
- **Comprehensive Life-Cycle Blockade:** Also arrests 2nd-generation schizogony, microgametocyte formation, and oocyst wall completion, eliminating shedding and farm re-infection.
- **Minimal Systemic Residue:** Low gastrointestinal absorption; primarily targets lumen pathogens. Average tissue residue after 7 days post-withdrawal is below 0.063 mg/kg.
- **Rapid Elimination Half-Life:** Anticoccidial efficacy vanishes 48 hours after feed withdrawal; requires continuous feeding throughout challenge periods to prevent recrudescence.

Certified Technical Specifications (COA)

Items of Test	Standards of Test (CPV 2020)	Results (Batch 20230126)
Description	Yellow Granule	Conforms (Uniform Free-Flowing)
Identification	Positive chemical reaction	Conforms (Positive)
Chromatography	Same retention time as reference standard	Conforms (HPLC Verified)
Loss on Drying	≤ 10.0%	1.2%
Assay (HPLC)	Diclazuril: 0.45% – 0.55%	**0.512%**
Conclusion	**Conforms to Chinese Veterinary Pharmacopoeia (CPV 2020)**	

Target Pathogens & Avian-Leporine Spectrum

- **Broiler Chickens & Pullets:** Complete cidal prevention against cecal coccidiosis (*E. tenella*) and intestinal forms (*E. acervulina, E. necatrix, E. brunetti, E. maxima, E. mitis*).
- **Commercial Meat & Breeding Rabbits:** Decisive prevention against lethal hepatic coccidiosis (*E. stiedae*) and enteric forms (*E. magna, E. media, E. perforans*).
- **Waterfowl & Turkeys:** Highly effective against goose renal coccidiosis, duck *Eimeria*, and *Tyzzeria perniciosa*.
- **High Safety Index:** Non-toxic to host birds; does not depress feed intake or water consumption even under high summer heat stress.

Recommended Dosage & Progressive Blending

Poultry (Broilers, Replacement Pullets, Waterfowl):
200 g per Metric Ton complete feed (providing 1 ppm / 1 mg/kg active Diclazuril). Administer continuously throughout the coccidiosis challenge window.

Commercial Meat Rabbits & Breeding Stock:
200 g per Metric Ton complete feed (1 ppm active Diclazuril). Administer in complete pelleted or meal feeds from weaning onwards.

Mandatory 3-Stage Pre-Dilution: High potency requires multi-stage premixing: Mix 200 g with 2–5 kg carrier → blend with 20–50 kg feed → incorporate into main mixer (CV < 5%).

Precautions, Withdrawal & Resistance Rotation Management

- **Egg Production Contraindication:** Forbidden for use in laying hens during laying period producing table eggs for human consumption.
- **Continuous Feeding Imperative:** Drug action clears rapidly within 48 hours of removal. Continuous feeding is required to prevent immediate recrudescence.
- **Strategic Shuttle & Rotation:** Prolonged monotherapy can induce resistance; best rotated or shuttled with Clopidol 25%, Nicarbazine 25%, Robenidine 10%, or ionophores.
- **Gut Integrity Synergy:** Combines synergistically with Enramycin 8% or BMD to eliminate secondary necrotic enteritis (*Clostridium perfringens*).

Operational Specifications:
- **Withdrawal Period:** Chickens 5 Days; Rabbits 14 Days.
- **Packaging:** 25 kg multi-wall craft paper bag with PE liner.
- **Storage:** Shaded, tightly sealed, stored in a cool, dry place.
- **Shelf Life:** 24 Months in original intact packaging.

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Disclaimer: For animal feed manufacturing and veterinary use only. Conforms strictly to Chinese Pharmacopoeia (CPV 2020).