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## CERTIFICATE OF ANALYSIS

### Veterinary Raw Powder Toltrazuril CAS 69004-03-1

#### What is Toltrazuril?

Toltrazuril is a broad-spectrum anthelmintic for humans and animals. It works by interfering with proteins in either the worm's intestine or absorptive cells. This leads to the worm not being able to absorb sugar (glucose), which are essential for its survival. Therefore the energy stores of the worm are depleted, and this leads to its eventual death within several days.

#### Functions:

Antiprotozoal drugs. It was clinically applied to bloody stool, meat ,tomatoes kinds of feces and coccidial inapparent infection. It can prevent coccidiosis effectively, and make the coccidian oocyst totally disappear, and it doesn't affect the growth of chicks as well as produce coccidium immunity.

Usage and dosage: Mixed drinks, 150L water mixed the drug per bag, used in conjunction with 3-4 days. (Had better be prepared when using, drink up within the space of two hours one day).

Package: 100g/bag

#### Applications:

- Anticoccidial drugs. For the treatment of poultry coccidiosis. The product of the chicken type of reactor, Brinell, giant, soft, gentle poison Eimeria; turkey Eimeria gland, turkey Eimeria; and goose Eimeria ball. Insects, cross-sectional shape Eimeria have good suppression of killing effect;
- For Sheep, 20mg/kg orally once a sheep or lamb to feed 10 ~ 15mg/kg toltrazuril drug material, can effectively prevent lamb coccidiosisBONITO K INVERSIONES CA;
- For Rabbit, 15mg/kg drug material fed on rabbit liver and intestinal coccidiosis coccidiosis extremely effective.

#### Specifications

Items	Standards	Results
Appearance	White or off-white solid powder	Complies
Identification	By IR	Complies
	By HPLC	Complies
Solubility	Soluble in DMF, sparingly soluble in THF, slightly soluble in methanol and acetonitrile, very slightly soluble in ethanol and dichloromethane, insoluble in water	Complies
Polymorphic Form	Polymorphic form 1	Complies
Melting Point	211°C~216°C	212.8°C~214.9°C
Water Content	≤ 0.50%	0.10%
Heavy Metals	≤ 20ppm	Complies
Residue on Ignition	≤ 0.20%	0.09%

<b>Related Substance</b>	Any single impurity: $\leq 0.10\%$	0.06%
	Total Impurities: $\leq 1.00\%$	0.16%
<b>Assay</b> (on the anhydrous basis)	98.0%~102.0%	99.94%
<b>Particle Size</b>	D90: $\leq 100\mu\text{m}$	Complies
<b>Reference Standard</b>	<b>In-house Standard</b>	
<b>Conclusion</b>	<b>The product complied to In-house standard.</b>	
<b>Storage</b>	<b>Preserve in tight,light-resistant containers in a cool place</b>	