



辽宁中信生物科技有限公司

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PRODUCT DATA SHEET

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COMMODITY: CHOLINE CHLORIDE 60% (FEED GRADE)

APPLICATION: Choline can promote fat metabolism and transformation, and prevent liver and kidney tissue degeneration. It is also the basis of acetylcholine incorporation and influences the transmission of neural signals. Choline is a methyl group source used for methionine incorporation. The shortage of choline will result in fatty liver, retarded growth, low egg laying and high morbidity and so on. Adding choline chloride into the feed is the most economical way of supplement choline.

Usage and Dosage: the application after the product mixed with feed, suggest to add the product about 0.1-0.3% into feed. The young livestock dosage should be added more according to the actual situation changes.

STANDARD: GB 34462-2017

TEST METHOD: REINECKE SALT GRAVIMETRIC

1. CHOLINE CHLORIDE 60%

Index	Choline Chloride		
Carrier	Corn Cob		
Appearance	Yellow-brownish granule		
Content of choline chloride	≥50.0%	≥60.0%	≥70.0%
Loss on drying	≤2.0%	≤2.0%	≤2.0%
Trimethylamine	≤0.03%	≤0.03%	≤0.03%
Heavy metal (as Pb) (mg/kg)	≤ 20	≤ 20	≤ 20
Particle size (through 850 μm sieve)	≥90%	≥90%	≥90%

The Qualitative and Quantitative Composition

The product "Choline Chloride 60%" is made of Choline Chloride and Corn Cob, Choline Chloride is the functional composition, and Corn Cob is the carrier. So the main compositions of the product are Choline Chloride, Corn Cob and water. The content of each composition is in the following table:

Composition	Percentage
Content of Choline Chloride	$\geq 60.0\%$
Content of Corn Cob	$\leq 38.0\%$
Content of Water	$\leq 2.0\%$

Company Name: Liaoning Biochem Co., Ltd

