

# PuraChol™

## Choline Chloride

PuraChol™ Choline Chloride 60% on Vegetable Carrier is a superior quality, dry granular product of European origin.

Choline is an essential nutrient for growth, development and good health of many animal species. It is a biochemical building block and precursor to numerous compounds required to support life.



### Product/Quality Characteristics (Declared on PSS):

Parameter	Typical
Choline Chloride	60±1% w/w
Moisture	2,5% w/w max
Particle size > 2.0 mm	2% max
Particle size > 0.85 mm	35% max
Trimethylamine	250 ppm w/w max
Apparent bulk density	600-750 kg/m <sup>3</sup>
Packed bulk density	600-800 kg/m <sup>3</sup>

### Application:

Choline is an essential nutrient for use in poultry, swine, aquaculture and pet food. 60% CC on vegetable carrier is a feed additive preparation (EU FA register: 3a890) suitable for use in premixes and/or feed.

### Feeding Recommendations:

FEFANA recommends the following choline supplementation (mg/kg feed 90% DM unless differently indicated).

### Feeding Recommendations:

	Period	Choline (mg/kg of feed*)	60% Choline Chloride (mg/kg of feed**)
Broilers	Starter	400-700	900-1550
	Grower-Finisher	400-700	900-1550
	Broiler Breeders	350-700	800-1550
Hens	Laying	300-500	650-1100
Turkeys	Starter	1000-1200	2250-2700
	Grower	500-1000	1100-2250
	Finisher	400-600	900-1350
	Breeder	1000-1200	2250-2700
Swine	Piglets Pre-Starter	500-800	1100-1800
	Piglets Starter	250-400	550-900
	Grower	150-300	350-650
	Finisher	100-200	200-450
	Gilts	250-500	550-1100
	Sows	500-800	1100-1800
Ruminants***	Dairy Cows	250-500	550-1100
	Beef Cattle	250-500	550-1100
Horses	Foals	300-400	650-900
	Leisure Horses	600-900	1350-2000
	Race and Breeding	1000-1400	2250-3150
Other Species	Dogs	1300-2700	2900-6050
	Cats	1300-2700	2900-6050
	Rabbits	600-800	1350-1800
	Mink & Foxes	500-1000	1100-2250
	Salmon & Trout	600-1000	1350-2250
	Warm-Water Fish	600-1000	1350-2250
	Sea Bream & Sea Bass	600-1000	1350-2250
	Shrimp	400-600	900-1350

\*Dosages in the table expressed as Choline; to be multiplied by 1.34 to obtain 100% Choline Chloride dose. Reference: FEFANA Booklet "Vitamins in Animal Nutrition" (FEFANA Publication 2014).

\*\*Calculations are rounded to the nearest 50mg/kg of feed.

\*\*\*Balchem's note: choline needs to be provided in a protected form for ruminants. Balchem recommends ReaShure-XC Precision Release Choline for use in ruminants, at a rate of 30 g/head/day.



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PURACHOL™ CHOLINE CHLORIDE 60% ON VEGETABLE CARRIER

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Choline Chloride



## The PuraChol Difference

- Total supply chain control.
- Stringent raw material standards.
- Strict manufacturing controls.
- Multiple production locations.
- Comprehensive product portfolio.
- Reliable customer service.
- Technical expertise and support.
- Inventory management.
- Social responsibility.
- Environmental stewardship.
- Research leadership.
- Industry support.
- High purity standards.
- Global presence.

## Feed Safety and Quality

PuraChol from Balchem sets high standards for choline production. By sourcing the best domestic raw ingredients, manufacturing them in state-of-the-art facilities, maintaining complete supply-chain control and holding ourselves to strict manufacturing standards, we can ensure that the product you get is premium quality.

Balchem's choline chloride is manufactured in Marano Ticino, Italy. Our feed safety management system is certified FAMI-QS, FSSC 22000 and regularly audited by the Italian Veterinary Inspection Authorities. The Marano Ticino production site registration number is a IT M00001 NO (Reg. 183/2005/EC). Balchem Italia also holds ISO 9001 and ISO 14001 certifications.

## ALL CHOLINE PRODUCTS ARE NOT CREATED EQUAL

While all choline chloride products are formulated using the same basic molecule, significant differences exist among commercial choline brands and the companies that market them. These differences are seen in product quality testing programs, raw ingredient supply controls and proprietary manufacturing techniques. Differences also extend beyond product to the intangible, but consumer-driven areas such as social responsibility, industry research support and environmental stewardship.

Balchem has invested more than 50 years in research, manufacturing advances and raw ingredient testing and sourcing to ensure you receive the highest quality, purest choline chloride possible.

Balchem Animal Nutrition & Health is the global leader in choline production, chelation and encapsulation technology. With a growing portfolio of nutrition products and a dedication to innovation and industry sustainability, Balchem is leading the charge to meet the nutritional needs of ruminants, monogastrics and companion animals. The company consists of three business segments: Human Nutrition & Health; Animal Nutrition & Health; and Specialty Products. Balchem employs around 1.300 people worldwide who are engaged in diverse activities, committed to developing the company into global market leadership positions.



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