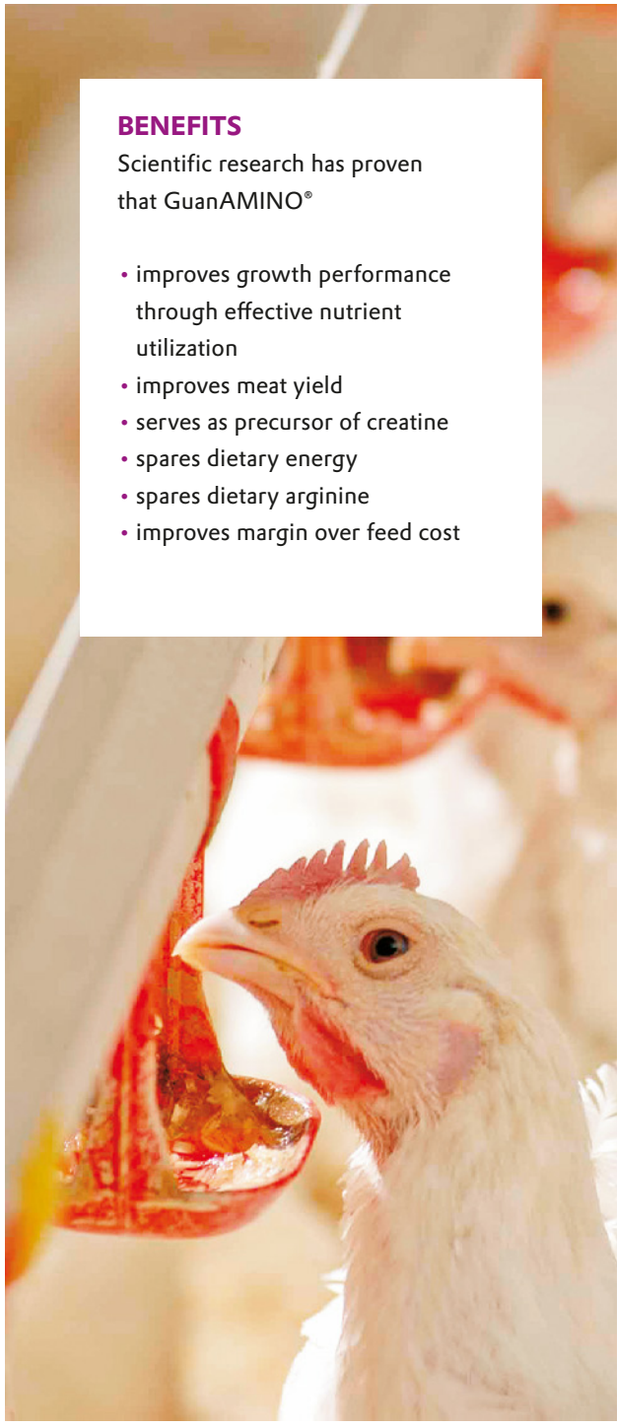


BENEFITS

Scientific research has proven that GuanAMINO®

- improves growth performance through effective nutrient utilization
- improves meat yield
- serves as precursor of creatine
- spares dietary energy
- spares dietary arginine
- improves margin over feed cost

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08/2025

Evonik Operations GmbH
Animal Nutrition Business Line

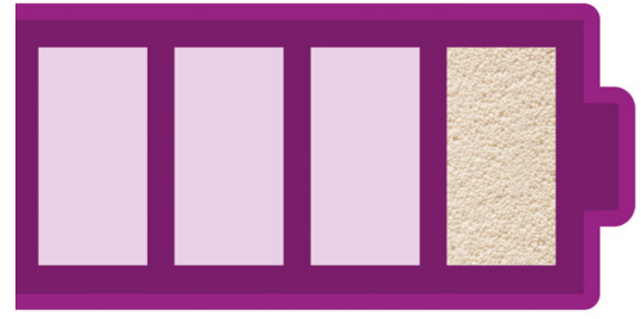
animal-nutrition@evonik.com
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Learn more about GuanAMINO®

EVONIK
Leading Beyond Chemistry

GuanAMINO®

The best creatine source from a world market leader in animal nutrition



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Leading Beyond Chemistry

CHALLENGE

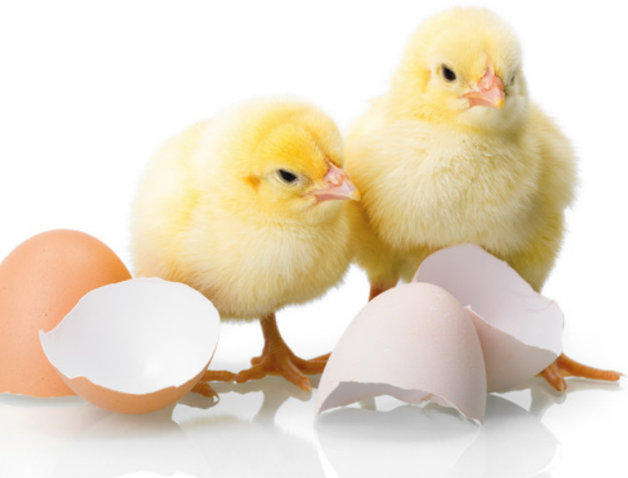
Creatine is a constituent of central importance in energy metabolism, particularly of muscle cells. More than 90 % of the creatine pool is located in the muscle tissue of the animal.

In the body, creatine is formed by *de novo* synthesis through methylation of guanidinoacetic acid (GAA), which itself is formed from the amino acids glycine and arginine. However, in fast-growing animals it is estimated that only around two-thirds of the daily need for creatine is covered by the body's own synthesis, while the rest must be supplied via addition to the feed.

SOLUTION

Providing the creatine precursor GAA, GuanAMINO® is the best supplemented creatine source due to its outstanding stability in feed processing and high bioavailability to the animal.

Adding GuanAMINO® to the feed closes the gap in creatine supply, thereby increasing the efficiency and effectiveness of nutrition and optimizing production costs of farm animals.



Product specification

GuanAMINO®	
Application	Broiler, turkey & swine feeds: entire growth period Broiler breeder feeds Sow feeds: gestation and lactation
Purity	Guanidinoacetic acid, min. 96 % in the product as is
Moisture	Maximum 1 %
Inclusion rate of the complete feed	Poultry: 0.06–0.12 % Swine: 0.09–0.12 %
Appearance	White to light beige granulated powder
Bulk density	550 kg/m³ ± 10 %
Particle size distribution	100 % < 1200 um D50 350 um +/- 20 %
Storage and stability	Kept in unopened original packaging in a cool and dry place under storage conditions of 5–30 °C (41–86°F) and 40–75 % relative humidity, its active content is guaranteed for 3 years from the manufacturing date
Packaging	25 kg bag net weight / 1000 kg bulk bag net weight

According to the respective feed legislation of different countries, GuanAMINO® is not approved in every country or not for all species, yet. Please consult your local Evonik expert regarding approval and availability in your country.

WHAT IS IN IT FOR YOU

GuanAMINO® ensures optimal nutrient utilization and return over feed cost. Furthermore, it spares metabolic energy and works towards an optimized amino acid metabolism. GuanAMINO® is granulated, virtually dust free, free flowing and has handling characteristics which make for easy usage in day to day operations.

Evonik, as one of the world market leaders in animal nutrition, is proud to be your most competent partner for GuanAMINO®. Our experienced employees and customized services enable you to always achieve the best performance from your animals.

Nutritional matrix

NUTRIENT	MATRIX VALUE	
Guanidinoacetic acid (GAA)	96 %	
Digestibility	100 %	
Crude protein (N x 6.25)	221 %	
BROILER		
Energy	[MJ/kg]	[kcal/kg]
AME_N content	10.6	2,540
AME_N sparing	≥ 347	≥ 83,000
Arginine sparing	≥ 77 %	
SWINE		
Energy	[MJ/kg]	[kcal/kg]
ME	13.3	3,179
NE	10.2	2,438