

Tryptophan

by AJINOMOTO EUROLYSINE S.A.S.

More information ?

Intensive research has been performed in European Institutes and Universities to investigate the benefits of tryptophan supplementation in animal feeding. Trials are reported in AJINOMOTO EUROLYSINE S.A.S. technical bulletins.

Internet :

Bulletins and the product data sheet can be downloaded from our website:

www.tryptophan.eu



Contact :



AJINOMOTO

AJINOMOTO ANIMAL NUTRITION

AJINOMOTO EUROLYSINE S.A.S.



AJINOMOTO EUROLYSINE S.A.S.

153, rue de Courcelles
75817 Paris Cedex 17 - France
Phone: +33 1 44 40 12 12
Fax : +33 1 44 40 12 13
www.ajinomoto-eurolysine.com

AJINOMOTO EUROLYSINE S.A.S
is certified in compliance with ISO 9001,
FAMI-QS, ISO 14001 and OHSAS 1800

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“L-Tryptophan 98% Feed Grade” is used to supplement feeds in order to meet the digestible tryptophan requirement of animals. It is particularly suitable for young pigs, because it helps to improve feed intake, growth rate and feed efficiency.

Tryptophan: a key nutrient

Benefits of tryptophan supplementation

Tryptophan is an essential amino acid: it has to be supplied to animals through their feed in sufficient amounts to cover their requirement. Dietary supply through feed materials can be insufficient; supplementation is then needed.

Higher feed intake

Maximising feed intake is a practical challenge, especially in young pigs and in lactating sows. At both physiological stages, supplementing a deficient diet with tryptophan has been proven to enhance feed intake. This effect is related to the fact that this amino acid is involved in appetite regulation in animals.

Higher growth rate and feed efficiency

Tryptophan supplementation aims at meeting the nutritional requirement of the animal. Recent trials have shown that a dietary tryptophan : lysine (Trp:Lys) ratio of 22% optimizes piglet performance. High body weight gain and feed efficiency levels result from the combination of higher feed intake and improved dietary amino acid balance (ideal protein).

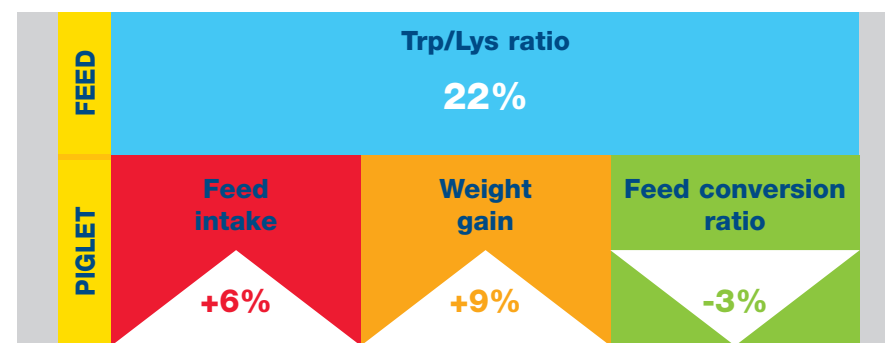
Performance under poor sanitary conditions

Tryptophan is also involved in the immune response. The activation of the immune system may create a specific requirement. Experiments comparing good and poor environments have shown that the increase in feed intake and growth rate obtained with higher dietary tryptophan contents is higher in a poor sanitary environment. These results emphasize the benefits of upgrading Trp:Lys levels to 22% in practical farming conditions.



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Effect of dietary tryptophan level (expressed as digestible tryptophan : lysine ratio) in piglets. Average of 9 dose-response trials in piglets between 8 and 30 kg body weight. The reference is a diet with a Trp:Lys ratio of 18%.

Product characteristics



Commercial name:	L-Tryptophan 98% Feed Grade	
Physical description:	White to pale yellow crystals	
Packaging:	10 kg bags on shrink wrapped pallets 250 kg big bags	
Commercial guarantees:	L-Tryptophan concentration	min 98%
	Moisture	max 1%
Utilisation:	All animal species	
Practical inclusion rates:	Usually from 0.1 to 1 kg/t feed	

L-Tryptophan 98% Feed grade is in the scope of Regulation EC 1831/2003 of 22/09/2003 on additives for use in animal nutrition (OJ EU n° L268 of 18/10/2003), category “nutritional additives”, additive group “amino acids, their salts and analogues”.