

Ingredient Specification

Ingredient	Menadione Nicotinamide Bisulphite Feed Grade
Description	White or cream powder
Active ingredient	Menadione nicotinamide bisulphite
Chemical Formula	$C_{11}H_9O_5S \cdot C_6H_7N_2O$
Test Standard	Minimum 96% menadione nicotinamide bisulphite corresponding to 43.9% menadione 31.2% nicotinamide on an anhydrous basis
Test Method	Spectrophotometry using a visible detector at 635 nm (VDLUFA — Bd.III 13.7.1)
Checked against	Certificate of analysis of each batch/lot number
Producer	FAMI-QS or GMP+ International certified factory
Production Method	Chemical synthesis
Product Registration	EU Register of Feed Additives 3a711
Regulatory	Conforms to EC Reg 1831/2003, EC Reg 183/2005, EC Directive 2002/32, EC Reg 1829/2003, EU Reg 1830/2003 and EU Reg 2015/2307
Undesirable substances	Conforms to EC Directive 2002/32
Salmonella	Absent
E.coli	Absent
Mould & Yeast Count	0 – 1000 cfu/g
Loss on drying	<1%
Packaging	Normally supplied in 25kg drums
Storage conditions	Store in a cool, dry place out of direct sunlight
Handling	No significant HACCP hazards. For safety, use breathing, eye and skin protection during handling.
Transport ADR	Not dangerous goods
Other	For use in animal feeds. May also be used in drinking water for animals Maximum 142g chromium/kg.
Signed	XL Ingredients Ltd
Date	04/05/2020