

## ANNEX

Identi- fication number of the additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimu m content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of active substance/kg of complete feedingstuff with a moisture content of 12%			
Category of nutritional additives. Functional group: vitamins, pro-vitamins and chemically well-defined substances having similar effect								
3a890i	Choline chloride	<b>Additive composition</b> Aqueous solution containing a minimum of 74% of choline chloride <b>Characterisation of the active substance</b> Choline chloride C <sub>5</sub> H <sub>14</sub> Cl·NO CAS number: 67-48-1 Solid form, produced by chemical synthesis Purity criteria: min. 99 % anhydrous basis 2-chloroethanol: maximum 30 mg/kg <b>Analytical method <sup>1</sup></b> For the determination of choline chloride in the feed additive, premixtures, compound feed and water: ion chromatography with conductivity detection (IC-CD)	All animal species	-	-	-	1. The additive may be used via water for drinking. 2. The directions for use of the additive and premixtures shall indicate the storage conditions, the stability to heat treatment and the stability in water for drinking. 3. The labelling of feed for poultry and pigs containing choline chloride shall indicate: “Recommended not to exceed supplemental levels of 1,000 mg of choline chloride/kg of complete feed for poultry and pigs.” 4. Simultaneous use of choline chloride in feed and water for drinking shall not be allowed	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

<sup>1</sup>Details of the analytical methods are available at the following address of the Reference Laboratory: [https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports\\_en](https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en)

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					mg of active substance/kg of complete feedingstuff with a moisture content of 12%			
Category of nutritional additives. Functional group: vitamins, pro-vitamins and chemically well-defined substances having similar effect								
							<div>5. In the directions for use of feed for poultry or pigs containing choline chloride shall be indicated: ‘simultaneous use with water for drinking in which choline chloride has been added shall not be allowed’.</div> <div>6. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.</div>	

Identi- fication number of the additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minim um conten t	Maximu m content	Other provisions	End of period of authorisa- tion
					mg of active substance/kg of complete feedingsstuff with a moisture content of 12%			
Category of nutritional additives. Functional group: vitamins, pro-vitamins and chemically well-defined substances having similar effect								
3a890ii	Choline chloride	<b>Additive composition</b>  Preparation with a minimum of 50% of choline chloride Solid form <b>Characterisation of the active substance</b> Choline chloride C <sub>5</sub> H <sub>14</sub> Cl·NO CAS number: 67-48-1 Solid form, produced by chemical synthesis Purity criteria: min. 99 % anhydrous basis 2-chloroethanol: maximum 30 mg/kg	All animal species	-	-	-	1. The additive may be used via water for drinking.  2. The directions for use of the additive and premixtures shall indicate the storage conditions, the stability to heat treatment and the stability in water for drinking.  3. The labelling of feed for poultry and pigs containing choline chloride shall indicate: “Recommended not to exceed supplemental levels of 1,000 mg of choline chloride/kg of complete feed for poultry and pigs.”	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

Identi- fication number of the additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minim um conten t	Maximu m content	Other provisions	End of period of authorisa- tion
					mg of active substance/kg of complete feedingstuff with a moisture content of 12%			
Category of nutritional additives. Functional group: vitamins, pro-vitamins and chemically well-defined substances having similar effect								
		<b>Analytical method <sup>2</sup></b> For the determination of choline chloride in the feed additive, premixtures, compound feed and water: ion chromatography with conductivity detection (IC-CD)					3. In the directions for use of feed for poultry or pigs containing choline chloride shall be indicated: ‘simultaneous use with water for drinking in which choline chloride has been added shall not be allowed’.  5. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with	

<sup>2</sup>Details of the analytical methods are available at the following address of the Reference Laboratory: [https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports\\_en](https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en)

Identification number of the additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisation
					mg of active substance/kg of complete feedingstuff with a moisture content of 12%			
Category of nutritional additives. Functional group: vitamins, pro-vitamins and chemically well-defined substances having similar effect								
							personal skin, eye and breathing protective equipment.	