

Annex 8.2 Table of Limit-/QS Guidance Values

The maximum level, action thresholds as well as the QS guidance values always relate to 88 % of dry matter (exception: original substance used for pesticide residues). Results near the limit/guidance value (minimum exhaustion rate of 75 %) should therefore always be converted to 88 % of dry matter (TS). If the dry matter content falls below 84 %, drying and conversion to 88 % dry matter must take place.

Within the QS database the lab has to specify whether the measured value refers to 88 % dry matter (TS), the original substance (OS) or the fat content of the analysed feed.

Where no QS guidance values are available, the legal maximum levels or action threshold or EU assessment values apply.

In addition to the determined value, the labs are obliged to enter the respective legal maximum levels, QS guidance values and analysis range in the data record if these have not already been pre-assigned in the database.

Parameter	QS guidance value	Maximum level	Source ³
Aflatoxin B1	0.001 mg/kg for compound feed and feed materials intended for QM-Milk dairy farms. For all others the legal maximum level applies.	Legal maximum level	QS respectively Directive 2002/32/EG (valid version of annex respectively)
Zearalenone (ZEA)	For sugar beet pulp ¹ to: <ul style="list-style-type: none"> ■ Sows, fattening pigs: 0.25 mg/kg ■ Piglets: 0.1 mg/kg ■ Calves, dairy cattle: 0.5 mg/kg 	EU assessment values	QS respectively Commission recommendation (2006/576/EG) from 17.08.2006
Deoxynivalenol/Vomitoxin (DON)	For sugar beet pulp ¹ to: <ul style="list-style-type: none"> ■ Sows, fattening pigs, piglets: 1 mg/kg ■ Fattening cattle: 5 mg/kg ■ Calves: 2 mg/kg ■ Dairy cattle: 3 mg/kg ■ Poultry: 4 mg/kg 	EU assessment values	QS respectively Commission recommendation (2006/576/EG) from 17.08.2006
Ochratoxin A (OTA)	-	EU assessment values	Commission recommendation (2006/576/EG) from 17.08.2006
Fumonisin B1/B2	-	EU assessment values	Commission recommendation (2006/576/EG) from 17.08.2006
T2/HT2-Toxins	-	EU assessment values	Commission recommendation (2013/165/EU) from 27.03.2013

Parameter	QS guidance value	Maximum level	Source ³
Dioxin	-	Legal maximum level and action threshold	Directive 2002/32/EG (valid version of annex respectively)
PCB (Dioxin-like)	-	Legal maximum level	Directive 2002/32/EG (valid version of annex respectively)
Non-dioxin-like PCB	-	Legal maximum level	Directive 2002/32/EG (valid version of annex respectively)
Summation of Dioxin and Dioxin-like PCB	-	Legal maximum level	Directive 2002/32/EG (valid version of annex respectively)
Salmonella	Negative (in the case of a positive result: identification of the serotype with details of the subspecies and serovar)	-	QS respectively Regulation (EG) 2160/2003
Cadmium	-	Legal maximum level	Directive 2002/32/EG (valid version of annex respectively)
Lead	-	Legal maximum level	Directive 2002/32/EG (valid version of annex respectively)
Arsenic	-	Legal maximum level	Directive 2002/32/EG (valid version of annex respectively)
Mercury	-	Legal maximum level	Directive 2002/32/EG (valid version of annex respectively)
Nickel	Maximum level: 50 mg/kg (on fat base) Action threshold: 20 mg/kg (on fat base)	-	QS
Animal components	Negative (in the case of a positive result: identification if noncritical)	-	QS respectively Regulation (EC) No. 999/2001 in the valid version respectively
Pesticides (including chlormequat, dithiocarbamate, glyphosate)	-	Legal maximum level	The statutory limits of EU Regulation 396/2005 are valid. When available, the processing factors by the BfR can be used
Organochlorine compounds (except dioxins and PCBs)	-	Legal maximum level	Directive 2002/32/EG (valid version of annex respectively)

Parameter	QS guidance value	Maximum level	Source ³
PAH (Polycyclic aromatic hydrocarbons)	<p>Sum of PAH4 for: Oils and fats (excluding palm(kernel)-, coconut oil and products derived thereof): Action threshold: 160 µg/kg (on fat basis) Guidance value: 200 µg/kg (on fat basis) Palm(kernel)-, coconut oil and products derived thereof: Action threshold: 320 µg/kg (on fat basis) Guidance value: 400 µg/kg (on fat basis):</p> <p>Benzo(a)pyren (BaP) for: Products with fat content < 10%: Guidance value: 25 µg/kg</p>	-	QS PAH4 = sum of benzo(a)pyren, benz(a)anthracen, benzo(b)fluoranthen and chrysen)
Antibiotic active substances	Quantitative analysis for substances named in footnote 2 using LC MS/MS ²	Legal maximum level	QS respectively Directive 2002/32/EG (valid version of annex respectively), Regulation (EC) No. 1831/2003
Methanol	2 g/kg	-	QS
Packaging material	Maximum level: 0.20 % Action threshold: 0.15 % (particle size > 0.5 mm)	-	Statement No. 034/2005 of BfR from 25 May 2005
Ergot (claviceps purpurea)⁴	-	Legal maximum level	Directive 2002/32/EG (valid version of annex respectively)
Hydrocyanic acid (HCN)	-	Legal maximum level	Directive 2002/32/EG (valid version of annex respectively)
Insoluble impurities		Legal maximum level	Regulation (EU) Nr. 142/2011

¹ Positions **Annex 9.5 QS-list of feed materials**: 04.01.07 to 04.01.11 as well as 04.01.13 and 04.01.17

² The following antibiotics and coccidiostats must be examined by LC MS/MS and their content determined.

Stage Feed sector:

Amoxicillin, chlortetracycline, doxycycline, florfenicol, lasalocid A sodium, lincomycin, maduramicin ammonium alpha, monensin sodium, narasin, nicarbazin, oxytetracycline, salinomycin sodium, spiramycin, sulfadiazin, sulfadimethoxine, sulfadimidin, sulfamethoxazole, tetracycline, tiamulin, trimethoprim, tylosin, virginiamycin M1.

Fish products from aquacultures (products from third party country): Chloramphenicol, furaltadone, furazolidone, leucomalachit green, malachit green, nitrofurantoin.

Stage Agricultural sector:

Self mixtures for poultry: Amoxicillin, benzylpenicillin, colistin, doxycycline, enrofloxacin, lincomycin, sulfadiazin, sulfadimethoxine, sulfadimidin, sulfamethoxazole, tiamulin, trimethoprim, tylosin.



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Self mixtures for for pigs and cattle: Amoxicillin, benzylpenicillin, cefquinome, ceftiofur, chlortetracycline, colistin, doxycycline, enrofloxacin, florfenicol, lincomycin, marbofloxacin, oxytetracycline, sulfadiazin, sulfadimethoxine, sulfadimidin, sulfamethoxazole, tetracycline, tiamulin, tildipirosin, tilmicosin, trimethoprim, tulathromycin, tylosin.

³ In case that a directive or EU regulation is mentioned as source, this or the resale right applies.

⁴ Examinations (optical controls) on ergot (*claviceps purpurea*) are to be conducted and documented by the company itself as an incoming goods inspection in unground grain. If ergot is found, subsequent count and documentation take place (no entry in QS database).

Revision Information Version 01.01.2022

Criteria/Requirement	Changes	Date of change
Parameter	New parameters: Fumonisin B1/B2, T2/HT2-Toxins and Insoluble impurities	01.01.2022
PAH (Polycyclic aromatic hydrocarbons)	Cancellation of the reference to GMP+ documents D 4.14 and D 4.15.	01.01.2022