



MONITORING-REPORT

Figures and facts on contaminants in animal feed



(RED)

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MONITORING-REPORT

kin-like PCBs (d

oxins. dioxin-li

Results

0-0.25 ng

13,132 betw o and 0.25

0-0.2 ng/ 11,335 betv

0-0.5 ng/k

o-5 µg/kg

5,448 betw o and o.5 i

FIGURES AND FACTS **ON CONTAMINANTS** IN ANIMAL FEED

More than 1.6 million individual analyses were for the Monitoring Report 2014. This poster d undesired substances and the feeds in which most frequently detected. To enable proper class of the results, the related readings ranges of lysis result are also shown. They help to illu results in relation to the limit values for th feeds. This poster helps businesses to compare lysis results with those for their own feeds.

Data basis: Analysis results of QS feed monitor from January 2008 to September 2014

		Aflatoxin B1									
	40	Parameter	Number of tests	No. of results exceeding maximum level		in feed/ raw materials					
	Ś	Aflatoxin B1	19,167 Of the 19,167 tests, a value was measured in 2,019 (10.5 %)		5 in total 4 1		Corn Corn gluten				
evaluated		Test results for a	iflatoxin B1 in detai	il							
depicts the		Feed	Results		Results		Results		Dioxins,	dioxin-like PC	
they were		Feed material Of the 1,543 tests in	o-10 µg/kg		> 10-20 µg	;/kg	> 20 µg/kg		(ndl-PC	3s)	
assification each ana-		which a value was measured, there were	1,457 betwee ο and 1ο μg/k		81 betwe 10 and 20 µ		5 above 20 µg/kg		Parameter •	Numbe of tests	
ustrate the he various re the ana-	8	Compound feed Of the 476 tests in which a value was measured, there	<mark>о-5 µg/kg</mark> 469 betweer o and 5 µg/k		> 5-10 µg 7 between 9 10 µg/kj	; and	> 10 µg/kg No value above 10 µg/kg was		Dioxins and dl-PCBs Dioxins	38,186 Of the 16,	
re the and-		were		5	10 µs/n	5	measured		DIOXINS	tests, a valu measured	ie was 1 in
				4						14,261 (86.	.5 %)
toring		Deoxynivalen	ol		-		_				
	3	Parameter	• Number of tests •		No. of results exceeding I reference value		in feed/ raw materials				
	Ě	DON	29,137 Of the 29,137 tests, a value was		43 in total						
	<i>A</i>	157	measured in 15,297 (52.5 %)		15	pi	Agricultural business: own mixture – ig fattening/sows/pigletsl		dl-PCBs	Of the 14, tests, a valu	ie was
					9		Complete feed for sows Complete feed for			measured 11,874 (82	
					9		fattening pigs		Total of dioxins	Of the 7,3 tests, a valu	
					4	Suppl	ementary feed for sows/ piglets/fattening pigs		and dl-PCBs	measured 5,943 (82.	d in
					1		Corn plants				
in feed/ raw materials	5			1		Wheat Oats			ndl-PCBs	10,904 Of the 10,904 tests, a value was measured in	
		Test results for E	OON in detail						Test resu	(50.4 % ts for dioxi	
The second		Feed	Results		Results		Results		PCBs in d		113, uto.
Piglet rearing feed	<u></u>	Feed material Of the 9,512 tests in			> 5-8 mg/		> 8 mg/kg		Parameter		
Corn (plants) Triticale xtures – pig production	4	which a value was measured, there were	9,421 betwee o and 5 mg/k	(g	g 5 and 8 mg/k		/kg 8 mg/kg		which a val measured,		
ures – cattle production		Compound feed Of the 5,785 tests i which a value was	n 5,639 betwee		> 0,9 mg/				dl PCBs		0-
Results		measured, there were	o and 1 mg/k						Of the 11,874 tests in which a value was measured, there were		11,3 o ar
> 2 mg/kg	X								Total dioxir dl PCBs	is +	0-
and 54 above 2 mg/kg				P					Of the 5,94 which a val measured, were	lue was	5,44 o an
								-	ndl PCBs Of the 5,50 which a val measured, were	ue was	0 4,89 0 a
			111	-		-			mprint	18 Ser	
			sup f	-		he	_		ditor: QS Qu nfo@q-s.de		

56 8 m - mar I **Editor:** QS Qualität und Sicherheit GmbH · Dr. Hermann-Josef Nienhoff, Managing Director · Schedestraße 1-3 · 53113 Bonn, Germany · Phone +49 (o) 228 350 68-0 · Fax +49 (o) 228 350 68-10 info@q-s.de · www.q-s.de **Pictures:** QS Qualität und Sicherheit GmbH, Shutterstock **As of September 2014**

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Mary and the

Monitoring-Report Feed 2014

Zearalenone (ZEA)

Feed material Of the 5,314 tests in which a value was measured, there

Compound feed Of the 4,495 tests in which a value was measured, there yere...

ZEA

Number of tests

27,358

Of the 27,358 tests, a value was measured in 9,809

(35.9 %)

o-1 mg/kg

5,228 between o and 1 mg/kg

4,327 between o and o.1 mg/kg

No. of results

exceeding

7 in total

Own mixt Own mixtu

> 1-2 mg/kg

and 32 between 1 and 2 mg/kg

EU reference valu

					2	
	(a)		Salmonella			
	A.	S B	Parameter	Number of tests	No. of positive results	in feed/ raw materials
			Salmonella	49,312	54 in total	
			YA	54 of 49,312 samples tested	12	Pig feed RPost-extraction rapeseed
	-	-	1	positive (0.1 %)		meal, rapeseed cake Soya (oil) cake, hulls;
			1	- 7		post-extraction soya meal
5 (dl-PCBS	s) and non-dioxin-	UKE PCBS		200	5	Sunflower seed, cake;
No. of results	No. of results	•in feed/		1.5	3	extracted sunflower seed
exceeding maximum leve	exceeding guidance value/intervention value	raw materials	1.2		3	Cocoa shells
				•	8	Various feed material products
5 in total	5 in total	1 mm	Hoose motol	A.C. Constantial	2	
1	1	(Sugar) beet molasses chips,	Heavy metal	5	-	
		(sugar) beet pieces	Parameter	Number of tests	No. of results exceeding maximum level	in feed/ raw materials
1		chemical refining (refining fatty acids) Fruit pulp	Heavy metals	108,393	13 in total	
- 0.	1	Salts of fatty acids	Arsenic	Out of 26,478 tests, a value wa	1	Supplementary feed for pigs
- 1		By-products from the milk		measured in 8,840 (33.4 %)	1	Supplementary feed fo fattening pig
		processing industry			1	Shrimp
There were r	10 1	(Sugar) beet			1	Yeas
results exceeding the naximum level		molasses chips	Lead	Out of 27,759 tests, a value wa measured in	1	Complete feed fo fattening pigs (up to 50 kg
				12,424 (44.8 %) 1	Calcium carbonate
1	-	Fatty acids from chemical refining (refining	Cadmium	Out of 27,595	1	Cocoa shell
1		fatty acids)		tests, a value wa measured in 17,5 (63.5 %)	as	Growing crops from permanent pastures
		511111195				(fresh, ensiled or dried)
1 in total		Mixed fatty acids			1	Shrimps
1		Wincu latty acids	Mercury	Out of 26,561 tests, a value was measured i	2 n 1	Yeas Supplementary feed
like PCRs	and non-dioxin-like			2,653 (10 %)	9 1-1-1	for fattening pige
-uke r CD3 i			Test results for	heavy metals in	detail	
sults	Results	Results	Parameter		Result	Result
5 ng/kg	> 0.25-0.5 ng/kg	> 0.5 ng/kg	Arsenic Of the 8,840 tests	in which	o-1 mg/kg	> 1 mg/kg
between .25 ng/kg	903 between 0.25 and 0.5 ng/kg	269 above 0.35 ng/kg	a value was measu there were		6,936 tests between 0 and 1 mg/kg	1,904 above 1 mg/kg
ng/kg	> 0.2-0.35 ng/kg	> 0.35 ng/kg	Lead Of the 12,424 tests a value was measu		o-5 mg/kg 11,947 tests between o and 5 mg/kg	> 5 mg/kg 477
between 02 ng/kg	270 between 0.2 and 0.35 ng/kg	269 above 0.35 ng/kg	there were Cadmium Of the 17,528 tests		0-1 mg/kg 17,212 tests between	> 1 mg/kg 316
ng/kg	> 0.5-1.0 ng/kg	> 1.0 ng/kg	a value was measu there were	iieu,	o and 1 mg/kg	
between 5.5 ng/kg	258 between 0.5 and 1.0 ng/kg	237 above 1.0 ng/kg	Mercury Of the 2,653 tests a value was measu there were		o-o.o5 mg/kg 2,418 tests between o and o.o5 mg/kg	> 0.05 mg/kg 235
µg/kg	> 5-10 µg/kg	> 10 µg/kg	Sale Trans			
between 5 µg/kg	347 between 5 and 10 µg/kg	263 above 10 µg/kg	Con .	Cing (1)	-	Mar Mar