Contaminant	Product	Rejection limit	Severity	Likely occurence	ССР	Control measure	Sampling Plan	Required Sampling frequency (number of samples pr. year)	Number of samples analyzed in 2020	Lowest value of samples in 2020	_	Highest value of samples in 2020	Evaluation
Aldrin and dieldrin (sum)	Fishmeal	0.01 mg/kg	high	low		Periodic testing	Yearly	16	26	n.d.	n.d.	n.d.	Ok
	Fish Oil	0.1 mg/kg	high	low		Periodic testing	Yearly	9	31	n.d.	n.d.	0,032	Ok
Camphechlor (toxaphene) Sum of CHB 26, 50, 62	Fishmeal	0.02 mg/kg	high	low		Periodic testing	Yearly	16	26	n.d.	n.d.	n.d.	Ok
	Fish Oil	0.2 mg/kg	high	low		Periodic testing	Yearly	9	54	n.d.	n.d.	0,02	Ok
Chlordane (Sum)	Fishmeal	0.02 mg/kg	high	low		Periodic testing	Yearly	16	26	n.d.	n.d.	n.d.	Ok
	Fish Oil	0.05 mg/kg	high	low		Periodic testing	Yearly	9	23	n.d.	n.d.	0,01	Ok
DDT (sum of DDT-, DDD- (or TDE-) and DDE-isomers, expressed as DDT)	Fishmeal	0.05 mg/kg	high	low		Periodic testing	Yearly	16	26	n.d.	n.d.	0,006	Ok
	Fish Oil	0.5 mg/kg	high	low		Periodic testing	Yearly	9	34	n.d.	n.d.	0,320	Ok
Endosulfan (sum of alfa, beta-somers and sulphate)	Fishmeal	0.1 mg/kg	high	low		Periodic testing	Yearly	16	26	n.d.	n.d.	n.d.	Ok
	Fish Oil	0.1 mg/kg	high	low		Periodic testing	Yearly	9	34	n.d.	n.d.	n.d.	Ok
Endrin	Fishmeal	0.01 mg/kg	high	low		Periodic testing	Yearly	16	26	n.d.	n.d.	n.d.	Ok
	Fish Oil	0.05 mg/kg	high	low		Periodic testing	Yearly	9	34	n.d.	n.d.	n.d.	Ok
Heptachlor	Fishmeal	0.01 mg/kg	high	low		Periodic testing	Yearly	16	26	n.d.	n.d.	n.d.	Ok
	Fish Oil	0.2 mg/kg	high	low		Periodic testing	Yearly	9	34	n.d.	n.d.	n.d.	Ok
HCB: Hexachlorbenzene	Fishmeal	0.01 mg/kg	high	low		Periodic testing	Yearly	16	26	n.d.	n.d.	n.d.	Ok
	Fish Oil	0.2 mg/kg	high	low		Periodic testing	Yearly	9	34	n.d.	n.d.	0,051	Ok
HCH: Alfa-isomer	Fishmeal	0.02 mg/kg	high	low		Periodic testing	Yearly	16	26	n.d.	n.d.	n.d.	Ok
	Fish Oil	0.2 mg/kg	high	low		Periodic testing	Yearly	9	34	n.d.	n.d.	n.d.	Ok

Contaminant	Product	Rejection limit	Severity	Likely occurence	ССР	Control measure	Sampling Plan	Required Sampling frequency (number of samples pr. year)	Number of samples analyzed in 2020	Lowest value of samples in 2020	_	Highest value of samples in 2020	Evaluation
HCH: Beta-isomer	Fishmeal	0.01 mg/kg	high	low		Periodic testing	Yearly	16	26	n.d.	n.d.	0,010	Ok
	Fish Oil	0.1 mg/kg	high	low		Periodic testing	Yearly	9	34	n.d.	n.d.	n.d.	Ok
HCH: Gamma-isomer	Fishmeal	0.2 mg/kg	high	low		Periodic testing	Yearly	16	26	n.d.	n.d.	n.d.	Ok
	Fish Oil	2.0 mg/kg	high	low		Periodic testing	Yearly	9	34	n.d.	n.d.	n.d.	Ok
Arsenic (As)	Fishmeal	25 mg/kg	high	Medium		Periodic testing	Yearly	49	119	n.d.	3,69	9,70	Ok
	Fish Oil	25 mg/kg	high	low		Periodic testing	Yearly	9	18	5,26	9,19	11,23	Ok
Cadmium (Cd)	Fishmeal	2.0 mg/kg	high	low		Periodic testing	Yearly	16	65	0,030	0,180	1,52	Ok
	Fish Oil	2.0 mg/kg	high	extra low		Periodic testing	Yearly	1	11	n.d.	n.d.	n.d.	Ok
Mercury (Hg)	Fishmeal	0.5 mg/kg	high	low		Periodic testing	Yearly	16	65	n.d.	0,050	0,260	Ok
	Fish Oil	0.5 mg/kg	high	extra low		Periodic testing	Yearly	1	11	n.d.	n.d.	n.d.	Ok
Lead (Pb)	Fishmeal	10 mg/kg	high	low		Periodic testing	Yearly	16	65	0,020	0,090	0,86	Ok
	Fish Oil	10 mg/kg	high	extra low		Periodic testing	Yearly	1	11	n.d.	n.d.	0,05	Ok
Chromium (Cr)	Fishmeal	n.a.	medium	extra low		Periodic testing	Yearly	1	31	n.d.	n.d.	0,14	Ok
	Fish Oil	n.a.	medium	extra low		Periodic testing	Yearly	1	6	n.d.	n.d.	n.d.	Ok
Fluorine/Fluoride	Fishmeal	500 mg/kg	low	extra low		Periodic testing	Yearly	0	n.a.	n.a.	n.a.	n.a.	Ok
	Fish Oil	500 mg/kg	low	extra low		Periodic testing	Yearly	0	n.a.	n.a.	n.a.	n.a.	Ok
Nitrites	Fishmeal	30 mg/kg	low	extra low		Periodic testing	Yearly	0	n.a.	n.a.	n.a.	n.a.	Ok
	Fish Oil	15 mg/kg	low	extra low		Periodic testing	Yearly	0	n.a.	n.a.	n.a.	n.a.	Ok

Contaminant	Product	Rejection limit	Severity	Likely occurence	ССР	Control measure	Sampling Plan	Required Sampling frequency (number of samples pr. year)	Number of samples analyzed in 2020	Lowest value of samples in 2020	Average value of samples in 2020	Highest value of samples in 2020	Evaluation
Melamine	Fishmeal	2.5 mg/kg	high	extra low		Periodic testing	Yearly	2	35	n.d.	n.d.	n.d.	Ok
	Fish Oil	2.5 mg/kg	high	n.a.		Periodic testing	Yearly	0	n.a.	n.a.	n.a.	n.a.	Ok
Aflatoxin B1	Fishmeal	0.02 mg/kg	high	n.a.		Periodic testing	Yearly	0	n.a.	n.a.	n.a.	n.a.	Ok
	Fish Oil	n.a.	n.a.	n.a.		Periodic testing	Yearly	0	n.a.	n.a.	n.a.	n.a.	Ok
Dioxin	Fishmeal	1.25 ng/kg	high	high	ССР	Continuous monitoring	Positive release	Every batch	Every batch	0,077	0,446	0,81	Ok
	Fish Oil	5,0 ng/kg	high	high	ССР	Continuous monitoring	Positive release	Every batch	Every batch	0,135	0,546	3,54	Ok
Dioxinlike PCBs	Fishmeal	2.75 ng/kg	high	medium		Periodic testing	Yearly	49	53	0,100	0,716	1,49	Ok
	Fish Oil	15 ng/kg	high	medium		Periodic testing	Yearly	27	92	0,206	2,408	8,30	Ok
Non-dioxinlike PCBs	Fishmeal	30 ug/kg	high	medium		Periodic testing	Yearly	49	53	n.d.	4,50	9,0	Ok
	Fish Oil	175 ug/kg	high	medium		Periodic testing	Yearly	27	81	1,51	36	95	Ok
PAH-4 (sum of benzo(a)pyrene, benzo(a)anthracene,	Fishmeal	n.a.	low	extra low		Periodic testing	Yearly	0	n.a.	n.a.	n.a.	n.a.	Ok
, , , , , , , , , , , , , , , , , , , ,	Fish Oil	n.a.	low	extra low		Periodic testing	Yearly	0	n.a.	n.a.	n.a.	n.a.	Ok
DNA, animal/ruminat components	Fishmeal	Not present	high	low		Periodic testing	Yearly	16	95	n.d.	n.d.	n.d.	Ok
	Fish Oil	n.a.	n.a.	n.a.		Periodic testing	Yearly	0	n.a.	n.a.	n.a.	n.a.	Ok
Enterobacteriaceae	Fishmeal	300 kve/g	high	high	ССР	Continuous monitoring	Positive release	Every batch	Every batch	n.d.	n.d.	n.d.	Ok
	Fish Oil	n.a.	n.a.	n.a.				0	n.a.	n.a.	n.a.	n.a.	Ok
Salmonella	Fishmeal	0	high	high	ССР	Continuous monitoring	Positive release	Every batch	Every batch	n.d.	n.d.	n.d.	Ok
	Fish Oil	n.a.	n.a.	n.a.				0	n.a.	n.a.	n.a.	n.a.	Ok

Contaminant	Product	Rejection limit	•	Likely occurence	ССР	Control measure	Sampling Plan	Required Sampling frequency (number of samples pr. year)	Number of samples analyzed in 2020	Lowest value of samples in 2020	Average value of samples in 2020	Highest value of samples in 2020	
Moulds	Fishmeal	10.000 kve/g	medium	extra low		Periodic testing	Yearly	1	31	n.d.	n.d.	140	Ok
	Fish Oil	n.a.	n.a.	n.a.				0	n.a.	n.a.	n.a.	n.a.	Ok
Sum of Cs-134 and Cs-137 Isotopes	Fishmeal	n.a.	low	extra low		Periodic testing	Yearly	0	n.a.	n.a.	n.a.	n.a.	Ok
	Fish Oil	n.a.	low	extra low				0	n.a.	n.a.	n.a.	n.a.	Ok
Biogenic amine, Histamine	Fishmeal	n.a.	low	high		Periodic testing	Yearly	16	80	n.d.	230	920	Ok
Biogenic amine, Cadaverine	Fishmeal	n.a.	low	high				16	80	200	580	1490	Ok
	Naturox Fishmeal	5,0 mg/kg	low	low		Periodic testing	Yearly	3	3	n.a.	n.a.	0,17	Ok
	Naturox Fish Oil	5,0 mg/kg	low	low				2	8	n.d.	n.d.	1,5	Ok

n.a. = not applicable

n.d. = not detected

Sampling frequency: Calculation of the required number of samples pr. year:

 $\sqrt{\text{Produced volume}}$ (Fishmeal=107.178 ton, Fish Oil=32.636 ton)

100

• Severity (Low=1, Medium=3, High=5) • Likely occcurence (Extra low=0,1, Low=1, Medium=3, High=5/Every batch)

Source: GMP+BA4, Fact sheets and risk assessments

Fishmeal factor 3,27
Fish Oil factor 1,8

Fishmeal sampling frequency (3,14 x Severity x Likely occurance)

risinied sumpling requestey (5,14 x Seventy x Energ Securities)								
High	2	16	49	Every batch				
Medium	1	10	29	49				
Low	0	3	10	16				
	Ekstra low	Low	Medium	High				

Fish oil sampling frequency (1,65 x Severity x Likely occurance)

	Ekstra low	Low	Medium	High
Low	0	2	5	9
Medium	1	5	16	27
High	1	9	27	Every batch