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Test report	231339-1-1	28.09.2023
Customer	Salamander SPS GmbH & Co. KG Jakob-Sigle-Straße 58 86842 Türkheim	
Order	Complete analysis	
Date of order / delivery	06.04.2023 / 12.04.2023	
Test sample / amount	1) Cabra de Luxe, Lot 225104600 / 6 x A4 2) Cabra black, Lot 205061900 / 9 x A4 3) Mesola supra natur, Lot 226161200 / 2 x A4 4) Vira universal natur, Lot 226112500 / 5 x A4 5) Lacontra blando Lot 233026500 / 5 x A4 6) Lacontra eco extra, Lot 233016900 / 3 x A4 7) Universal natur, Lot 225051300 / 3 x A4	
Sampling	by customer, test pieces from material by FILK gGmbH	
Test methods	see test results, climate for conditioning and physical testing: 23 ± 2 °C, 50 ± 5 % relative humidity	

The test results as well as any statements of conformity apply only to the samples tested in the FILK Test Laboratory. The sample designations correspond to the information provided by the customer. The test results are mean values, further statistical characteristic values and test details not stated in the test report are deposited in the Test Laboratory. The test period is the time between sample receipt and creation of test report. In principle, only the finally released test report is valid. Accredited test methods are indicated by [A]. Tests carried out by sub-contractors are indicated by [A][U]. Tests carried out by co-operation partners are indicated by [F]. The partial publication of the test report is only allowed with a permission of the FILK Freiberg Institute gGmbH. Compensation claims are limited to the price of tests carried out. The General Terms and Conditions of FILK Freiberg Institute gGmbH apply. They are available at www.filkfreiberg.de

Test results

Parameter	1) Cabra de Luxe, Lot 225104600	Salamander Requirements	Statement of conformity *
Aromatic Amines			
in mg/kg			
DIN EN ISO 17234-1 ^[A] (2020-12)			
HPLC/DAD -Determination			
4-Aminobiphenyl	< 5	< 20	pass
Benzidine	< 5	< 20	pass
4-Chloro-o-toluidine	< 5	< 20	pass
2-Naphthylamine	< 5	< 20	pass
o-Aminoazotoluene	< 5	< 20	pass
2-Amino-5-nitrotoluene	< 5	< 20	pass
4-Chloroaniline	< 5	< 20	pass
2,4-Diaminoaniso	< 5	< 20	pass
4,4'-Diaminodiphenylmethane	< 5	< 20	pass
3,3'-Dichlorobenzidine	< 5	< 20	pass
3,3'-Dimethoxybenzidine	< 5	< 20	pass
3,3'-Dimethylbenzidine	< 5	< 20	pass
4,4'-Methylenedi-o-toluidine	< 5	< 20	pass
p-Cresidine	< 5	< 20	pass
4,4'-Methylene-bis(2-chloroaniline)	< 5	< 20	pass
4,4'-Oxydianiline	< 5	< 20	pass
4,4'-Thiodianiline	< 5	< 20	pass
o-Toluidine	< 5	< 20	pass
2,4-Toluendiamine	< 5	< 20	pass
2,4,5-Trimethylaniline	< 5	< 20	pass
2-Methoxyaniline	< 5	< 20	pass
2,4-Xylidine	< 5	< 20	pass
2,6-Xylidine	< 5	< 20	pass
4-Aminoazobenzene	< 5	< 20	pass
Anilin	< 5	< 20	pass
4-Chlor-o-toluidiniumchlorid, Fast Red	< 5	< 20	pass
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	< 5	< 20	pass

Parameter	1) Cabra de Luxe, Lot 225104600	Salamander Requirements	Statement of conformity *
PAHs ^[F] in mg/kg AfPS GS 2019:01			
Acenaphthene	< 0,2	sum 10	pass
Acenaphthylene	< 0,2	sum 10	pass
Anthracene	< 0,2	sum 10	pass
Benzo[a]anthracene	< 0,2	< 0,2	pass
Benzo[a]pyrene	< 0,2	< 0,2	pass
Benzo[b]fluoranthene	< 0,2	< 0,2	pass
Benzo[e]pyrene	< 0,2	< 0,2	pass
Benzo[ghi]perylene	< 0,2	sum 10	pass
Benzo[j]fluoranthene	< 0,2	< 0,2	pass
Benzo[k]fluoranthene	< 0,2	< 0,2	pass
Chrysene	< 0,2	< 0,2	pass
Cyclopenta[c,d]pyrene	< 0,2	sum 10	pass
Dibenzo[a,h]anthracene	< 0,2	< 0,2	pass
Dibenzo[a,e]pyrene	< 0,2	sum 10	pass
Dibenzo[a,h]pyrene	< 0,2	sum 10	pass
Dibenzo[a,i]pyrene	< 0,2	sum 10	pass
Dibenzo[a,l]pyrene	< 0,2	sum 10	pass
Fluoranthene	< 0,2	sum 10	pass
Fluorene	< 0,2	sum 10	pass
Indeno[1,2,3-cd]pyrene	< 0,2	sum 10	pass
1-Methylpyrene	< 0,2	sum 10	pass
Naphthalene	< 0,2	sum 10	pass
Phenanthrene	< 0,2	sum 10	pass
Pyrene	< 0,2	sum 10	pass
Benzo(c) fluoren	< 0,2	sum 10	pass
5-Methylchrysen	< 0,2	sum 10	pass
Sum 26 PAHs	< 1	< 10	pass
Heavy metals, extractable ^[F] in mg/kg on dry weight DIN EN ISO 17072-1 (2019-07)			
Antimony (Sb)	< 1,3	< 5,0	pass
Arsenic (As)	< 0,2	< 0,2	pass
Lead (Pb)	< 0,2	< 0,8	pass
Cadmium (Cd)	< 0,05	< 0,1	pass
Cobalt (Co)	< 1,0	< 4,0	pass
Copper (Cu)	< 12,5	< 50	pass
Nickel (Ni)	< 0,5	< 4,0	pass
Mercury (Hg)	< 0,02	< 0,02	pass
Barium (Ba)	< 12,5	< 1000	pass
Selenium (Se)	< 12,5	< 100	pass
Zinc (Zn)	< 12,5	< 50	pass
sum	38	< 200	pass
Aluminium (Al)	7,5		
Chromium (Cr)	30		
Titanium (Ti)	< 1,3		
Zirconium (Zr)	< 1,3		
Iron (Fe)	< 1,3		

Parameter	1) Cabra de Luxe, Lot 225104600	Salamander Requirements	Statement of conformity *
Organic tin compounds ^[F] in mg/kg DIN CEN ISO / TS (2012-12)			
Dibutyltin (DBT)	< 0,2	< 0,5	pass
Dimethyltin (DMT)	< 0,2	< 0,5	pass
Dioctyltin (DOT)	< 0,2	< 0,5	pass
Diphenyltin (DPhT)	< 0,2	< 0,5	pass
Dipropyltin (DPT)	< 0,2	< 0,5	pass
Monomethyltin (MMT)	< 0,2	< 0,5	pass
Monobutyltin (MBT)	< 0,2	< 0,5	pass
Monooctyltin (MOT)	< 0,2	< 0,5	pass
Monophenyltin (MPhT)	< 0,2	< 0,5	pass
Tetrabutyltin (TeBT)	< 0,2	< 0,5	pass
Tetraethyltin (TeET)	< 0,2	< 0,5	pass
Tetraoctylzinn (TeOT)	< 0,2	< 0,5	pass
Tributyltin (TBT)	< 0,02	< 0,025	pass
Tricyclohexyltin(TCyHT)	< 0,2	< 0,5	pass
Trimethyltin (TMT)	< 0,2	< 0,5	pass
Trioctyltin (TOT)	< 0,2	< 0,5	pass
Triphenyltin (TPhT)	< 0,2	< 0,5	pass
Tripropyltin (TPT)	< 0,2	< 0,5	pass
Bis(tributyltin)oxide (TBTO)	< 0,02	< 0,025	pass
Dibutyltin dichloride (DBTC)	< 0,2	< 0,5	pass
Alkyl phenols, ethoxylated alkyl phenols in mg/kg DIN EN ISO 18218-1 (2015-11)			
Octylphenol (OP)	<10	sum < 20	pass
Nonylphenol (NP)	<10	sum < 20	pass
Heptylphenol (HpP)	<10	sum < 20	pass
Pentylphenol (PeP)	<10	sum < 20	pass
Octylphenoethoxylates (OPEO)	< 20	sum < 100	pass
Nonylphenoethoxylates (NPEO)	< 20	sum < 100	pass
Phenols in mg/kg FILK-QMA 2046 – p2 (2021-10) ultrasonic extraction, methanol, 60 °C; 1h, HPLC-PDA			
Phenol	< 10	Sum < 20	pass
4-t-Butylphenol	< 10	1000	pass
pH value (22 °C) difference figure DIN EN ISO 4045 ^[A] (2018-09)	5,05 0,45	3,5 – 7,0	pass

Parameter	1) Cabra de Luxe, Lot 225104600	Salamander Requirements	Statement of conformity *
Chlorinated phenols in mg/kg DIN EN ISO 17070 ^[A] (2015-05)			
Pentachlorophenol	< 0,1	< 0,3	pass
Tetrachlorophenols, each isomer	< 0,2	< 0,3	pass
Trichlorophenols, each isomer	< 0,2	< 0,3	pass
Dichlorophenols, each isomer	< 0,5	< 0,5	pass
Monochlorophenols, each isomer	< 0,5	< 0,5	pass
Process preservative agents in mg/kg dry weight DIN EN ISO 13365 -1 ^[A] (2020-12)			
2-Phenylphenol (OPP)	82	< 750	pass
4-Chlor-3-methylphenol (CMK)	120	< 300	pass
2-Thiocyanomethylthiobenzothiazol (TCMTB)	45	< 300	pass
N-Octylisothiazolinon (OIT)	15	< 100	pass
Triclosan	< 10	< 50	pass
5-Chlor-2-methyl-4-isothiazolin-3-one (CMIT)	< 1,0	< 1,0	pass
2-Mercaptobenzothiazol (2-MBT)	< 5,0	< 5,0	pass
Methylisothiazolinon (MIT)	< 1,0	< 1,0	pass
1,2-Benzothiazol-3-on (BIT)	< 1,0	< 1,0	pass
Dimethylfumarate (DMFu) in mg/kg DIN EN ISO 16186 (2021-9)	< 0,1	< 0,1	pass
Dyestuffs ^[F] potential sensitizing dyestuffs in mg/kg DIN 54231 (2005-11)			
Disperse Blue 1	< 5,0	< 15	pass
Disperse Blue 3	< 5,0	< 15	pass
Disperse Blue 7	< 5,0	< 15	pass
Disperse Blue 26	< 5,0	< 15	pass
Disperse Blue 35	< 5,0	< 15	pass
Disperse Blue 102	< 5,0	< 15	pass
Disperse Blue 106	< 5,0	< 15	pass
Disperse Blue 124	< 5,0	< 15	pass
Disperse Brown 1	< 5,0	< 15	pass
Disperse Orange 1	< 5,0	< 15	pass
Disperse Orange 3	< 5,0	< 15	pass
Disperse Orange 37/59/76	< 5,0	< 15	pass
C.I. Disperse Red 1	< 5,0	< 15	pass
C.I. Disperse Red 11	< 5,0	< 15	pass
C.I. Disperse Red 17	< 5,0	< 15	pass
C.I. Disperse Yellow 1	< 5,0	< 15	pass
C.I. Disperse Yellow 3	< 5,0	< 15	pass
C.I. Disperse Yellow 9	< 5,0	< 15	pass
C.I. Disperse Yellow 39	< 5,0	< 15	pass
C.I. Disperse Yellow 49	< 5,0	< 15	pass

Parameter	1) Cabra de Luxe, Lot 225104600	Salamander Requirements	Statement of conformity *
Dyestuffs ^[F] carcinogenic, teragoneic or toxic for reproduction in mg/kg DIN 54231 (2005-11)			
Acid Red 26	< 5,0	< 15	pass
Basic Blue 26	< 5,0	< 15	pass
Basic Green4	< 5,0	< 15	pass
Basic Green4	< 5,0	< 15	pass
Basic Green4	< 5,0	< 15	pass
Basic Red 9	< 5,0	< 15	pass
Basic Violet 3	< 5,0	< 15	pass
Basic Violet 14	< 5,0	< 15	pass
Direct Black 28	< 5,0	< 15	pass
Direct Black 38	< 5,0	< 15	pass
Direct Blue 6	< 5,0	< 15	pass
Direct Red 28	< 5,0	< 15	pass
Disperse Blue 1	< 5,0	< 15	pass
Disperse Orange 11	< 5,0	< 15	pass
Disperse Orange 149	< 5,0	< 15	pass
Disperse Yellow 3	< 5,0	< 15	pass
Disperse Yellow 23	< 5,0	< 15	pass
Disperse Red 151	< 5,0	< 15	pass
Disperse Yellow 7	< 5,0	< 15	pass
Disperse Yellow 56	< 5,0	< 15	pass
Navy Blue	< 5,0	< 15	pass
Solvent Red 23	< 5,0	< 15	pass
Pigment Red104	< 5,0	< 15	pass
Pigment Yellow34	< 5,0	< 15	pass
Solvent Yellow 1 (Aniline Yellow/4-Aminosazobenzene)	< 5,0	< 15	pass
Solvent Yellow 3 (o-Aminoazotoluene/o-Aminoazotoluol)	< 5,0	< 15	pass
Direct Brown 95	< 5,0	< 15	pass
Direct Blue 15	< 5,0	< 15	pass
Acid Red 114	< 5,0	< 15	pass
4-Chlor-o-toluidiniumchlorid, Fast Red	< 5,0	< 15	pass
Basic Yellow 2	< 5,0	< 15	pass
4,4'-bis(dimethylamino)-4''- (methylamino)trityl alcohol [Solvent Violet 8]	< 5,0	< 15	pass
Solvent Blue 4 [4-(Dimethylamino)-5,8- dihydronaphthalen-1-yl]{bis[4- (dimethylamino)phenyl]}methanol]	< 5,0	< 15	pass

Parameter	1) Cabra de Luxe, Lot 225104600	Salamander Requirements	Statement of conformity *
Chlorinated paraffins ^[F] in mg/kg ultrasonic extraction with DCM/n-hexane GC-MS-MS SCCP (C10 – C13) MCCP (C14 – C17)	< 50 < 50	< 50 < 50	pass pass
Chloralkane long-chain (C18 – C20) ^[F] Sum in mg/kg DIN EN ISO 18219-1 (2021-09) DIN EN ISO 18219-2 (2021-09)	< 500 ¹⁾	< 500	pass
Tris(2-chloroethyl)phosphate (TCEP) in mg/kg DIN EN ISO 16181-1 (2021-07)	< 10	< 10	pass
Heavy metals ^[F] in mg/kg on dry weight DIN EN ISO 17072-2 (2019-07) Digestion: Microwave (Aqua regia)			
Arsenic (As)	< 1,25	< 10	pass
Cadmium (Cd)	< 0,25	< 10	pass
Mercury (Hg)	< 0,12	< 0,5	pass
Lead (Pb)	< 1,25	< 30	pass
Nickel (Ni)	< 2,0	< 10	pass
Tin (Sn)	< 0,25	< 0,25	pass
Antimony (Sb)	< 1,25	< 25	pass
Cobalt (Co)	< 1,25	< 10	pass

Parameter	2) Cabra black, Lot 205061900	Salamander Requirements	Statement of conformity *
Aromatic Amines in mg/kg DIN EN ISO 17234-1 [A] (2020-12) HPLC/DAD -Determination			
4-Aminobiphenyl	< 5	< 20	pass
Benzidine	< 5	< 20	pass
4-Chloro-o-toluidine	< 5	< 20	pass
2-Naphthylamine	< 5	< 20	pass
o-Aminoazotoluene	< 5	< 20	pass
2-Amino-5-nitrotoluene	< 5	< 20	pass
4-Chloroaniline	< 5	< 20	pass
2,4-Diaminoanisole	< 5	< 20	pass
4,4'-Diaminodiphenylmethane	< 5	< 20	pass
3,3'-Dichlorobenzidine	< 5	< 20	pass
3,3'-Dimethoxybenzidine	< 5	< 20	pass
3,3'-Dimethylbenzidine	< 5	< 20	pass
4,4'-Methylenedi-o-toluidine	< 5	< 20	pass
p-Cresidine	< 5	< 20	pass
4,4'-Methylene-bis(2-chloroaniline)	< 5	< 20	pass
4,4'-Oxydianiline	< 5	< 20	pass
4,4'-Thiodianiline	< 5	< 20	pass
o-Toluidine	< 5	< 20	pass
2,4-Toluendiamine	< 5	< 20	pass
2,4,5-Trimethylaniline	< 5	< 20	pass
2-Methoxyaniline	< 5	< 20	pass
2,4-Xylidine	< 5	< 20	pass
2,6-Xylidine	< 5	< 20	pass
4-Aminoazobenzene	< 5	< 20	pass
Anilin	< 5	< 20	pass
4-Chlor-o-toluidiniumchlorid, Fast Red	< 5	< 20	pass
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	< 5	< 20	pass
Chromium (VI) - content in mg/kg dry weight DIN EN ISO 17075-2 [A] (2017-05) Ion chromatography post column reaction recovery rate in %	< 3,0 96,4	< 3,0	pass
Chromium (VI) – content Aging DIN EN ISO 10195 (2021-10) Method A2 Content in mg/kg dry weight DIN EN ISO 17075-2 [A] (2017-05) post column deviatiation recovery rate in %	< 3,0 95,1	< 3,0	pass
pH value (22 °C) difference figure DIN EN ISO 4045 [A] (2018-09)	4,15 0,45	3,5 – 7,0	pass

Parameter	3) Mesola supra natur, Lot 226161200	Salamander Requirements	Statement of conformity *
Chromium (VI) - content in mg/kg dry weight DIN EN ISO 17075-2 ^[A] (2017-05) Ion chromatography post column reaction recovery rate in %	 < 3,0 85,1	 < 3,0	 pass
Chromium (VI) – content Aging DIN EN ISO 10195 (2021-10) Method A2 Content in mg/kg dry weight DIN EN ISO 17075-2 ^[A] (2017-05) post column deviatiation recovery rate in %	 < 3,0 90,1	 < 3,0	 pass
pH value (22 °C) difference figure DIN EN ISO 4045 ^[A] (2018-09)	3,75 0,70	3,5 – 7,0	pass

Parameter	4) Vira universal natur, Lot 226112500	Salamander Requirements	Statement of conformity *
Chromium (VI) - content in mg/kg dry weight DIN EN ISO 17075-2 ^[A] (2017-05) Ion chromatography post column reaction recovery rate in %	< 3,0 91,6	< 3,0	pass
Chromium (VI) – content Aging DIN EN ISO 10195 (2021-10) Method A2 Content in mg/kg dry weight DIN EN ISO 17075-2 ^[A] (2017-05) post column deviatiation recovery rate in %	< 3,0 94,0	< 3,0	pass
PAHs ^[F] in mg/kg AfPS GS 2019:01			
Acenaphthene	< 0,2	sum 10	pass
Acenaphthylene	< 0,2	sum 10	pass
Anthracene	< 0,2	sum 10	pass
Benzo[a]anthracene	< 0,2	< 0,2	pass
Benzo[a]pyrene	< 0,2	< 0,2	pass
Benzo[b]fluoranthene	< 0,2	< 0,2	pass
Benzo[e]pyrene	< 0,2	< 0,2	pass
Benzo[ghi]perylene	< 0,2	sum 10	pass
Benzo[j]fluoranthene	< 0,2	< 0,2	pass
Benzo[k]fluoranthene	< 0,2	< 0,2	pass
Chrysene	< 0,2	< 0,2	pass
Cyclopenta[c,d]pyrene	< 0,2	sum 10	pass
Dibenzo[a,h]anthracene	< 0,2	< 0,2	pass
Dibenzo[a,e]pyrene	< 0,2	sum 10	pass
Dibenzo[a,h]pyrene	< 0,2	sum 10	pass
Dibenzo[a,i]pyrene	< 0,2	sum 10	pass
Dibenzo[a,l]pyrene	< 0,2	sum 10	pass
Fluoranthene	< 0,2	sum 10	pass
Fluorene	< 0,2	sum 10	pass
Indeno[1,2,3-cd]pyrene	< 0,2	sum 10	pass
1-Methylpyrene	< 0,2	sum 10	pass
Naphthalene	< 0,2	sum 10	pass
Phenanthrene	< 0,2	sum 10	pass
Pyrene	< 0,2	sum 10	pass
Benzo(c) fluoren	< 0,2	sum 10	pass
5-Methylchrysen	< 0,2	sum 10	pass
Sum 26 PAHs	< 1	< 10	pass

Parameter	4) Vira universal natur, Lot 226112500	Salamander Requirements	Statement of conformity *
Alkyl phenols, ethoxylated alkyl phenols in mg/kg DIN EN ISO 18218-1 (2015-11)			
Octylphenol (OP)	<10	sum < 20	pass
Nonylphenol (NP)	<10	sum < 20	pass
Heptylphenol (HpP)	<10	sum < 20	pass
Pentylphenol (PeP)	<10	sum < 20	pass
Octylphenoethoxylates (OPEO)	< 20	sum < 100	pass
Nonylphenoethoxylates (NPEO)	< 20	sum < 100	pass
Formaldehyde content in mg/kg dry weight DIN EN ISO 17226-1 ^[A] (2021-05) HPLC- detection	< 2,0	< 10	pass
Glutaraldehyde content in mg/kg dry weight referring to DIN EN ISO 17226-1 ^[A] (2021-05) HPLC-detection	< 2,0	< 1000	pass
pH value (22 °C) difference figure DIN EN ISO 4045 ^[A] (2018-09)	3,75 0,70	3,5 – 7,0	pass
Process preservative agents in mg/kg dry weight DIN EN ISO 13365 -1 ^[A] (2020-12)			
2-Phenylphenol (OPP)	34	< 750	pass
4-Chlor-3-methylphenol (CMK)	30	< 300	pass
2-Thiocyanomethylthiobenzothiazol (TCMTB)	31	< 300	pass
N-Octylisothiazolinon (OIT)	21	< 100	pass
Triclosan	< 10	< 50	pass
5-Chlor-2-methyl-4-isothiazolin-3-one (CMIT)	< 1,0	< 1,0	pass
2-Mercaptobenzothiazol (2-MBT)	< 5,0	< 5,0	pass
Methylisothiazolinon (MIT)	< 1,0	< 1,0	pass
1,2-Benzothiazol-3-on (BIT)	< 1,0	< 1,0	pass

Parameter	5) Lacontra blando Lot 233026500	Salamander Requirements	Statement of conformity *
Aromatic Amines in mg/kg DIN EN ISO 17234-1 ^[A] (2020-12) HPLC/DAD -Determination			
4-Aminobiphenyl	< 5	< 20	pass
Benzidine	< 5	< 20	pass
4-Chloro-o-toluidine	< 5	< 20	pass
2-Naphthylamine	< 5	< 20	pass
o-Aminoazotoluene	< 5	< 20	pass
2-Amino-5-nitrotoluene	< 5	< 20	pass
4-Chloroaniline	< 5	< 20	pass
2,4-Diaminoanisole	< 5	< 20	pass
4,4'-Diaminodiphenylmethane	< 5	< 20	pass
3,3'-Dichlorobenzidine	< 5	< 20	pass
3,3'-Dimethoxybenzidine	< 5	< 20	pass
3,3'-Dimethylbenzidine	< 5	< 20	pass
4,4'-Methylenedi-o-toluidine	< 5	< 20	pass
p-Cresidine	< 5	< 20	pass
4,4'-Methylene-bis(2-chloroaniline)	< 5	< 20	pass
4,4'-Oxydianiline	< 5	< 20	pass
4,4'-Thiodianiline	< 5	< 20	pass
o-Toluidine	< 5	< 20	pass
2,4-Toluendiamine	< 5	< 20	pass
2,4,5-Trimethylaniline	< 5	< 20	pass
2-Methoxyaniline	< 5	< 20	pass
2,4-Xylidine	< 5	< 20	pass
2,6-Xylidine	< 5	< 20	pass
4-Aminoazobenzene	< 5	< 20	pass
Anilin	< 5	< 20	pass
4-Chlor-o-toluidiniumchlorid, Fast Red	< 5	< 20	pass
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	< 5	< 20	pass
Chromium (VI) - content in mg/kg dry weight DIN EN ISO 17075-2 ^[A] (2017-05) Ion chromatography post column reaction recovery rate in %	< 3,0 75,9	< 3,0	pass
Chromium (VI) – content Aging DIN EN ISO 10195 (2021-10) Method A2 Content in mg/kg dry weight DIN EN ISO 17075-2 ^[A] (2017-05) post column deviatiation recovery rate in %	< 3,0 59,0	< 3,0	pass

Parameter	5) Lacontra blando Lot 233026500	Salamander Requirements	Statement of conformity *
Heavy metals, extractable ^[F] in mg/kg on dry weight DIN EN ISO 17072-1 (2019-07)			
Antimony (Sb)	< 1,3	< 5,0	pass
Arsenic (As)	< 0,2	< 0,2	pass
Lead (Pb)	< 0,2	< 0,8	pass
Cadmium (Cd)	< 0,05	< 0,1	pass
Cobalt (Co)	< 1,0	< 4,0	pass
Copper (Cu)	< 12,5	< 50	pass
Nickel (Ni)	< 0,5	< 4,0	pass
Mercury (Hg)	< 0,02	< 0,02	pass
Barium (Ba)	< 12,5	< 1000	pass
Selenium (Se)	< 12,5	< 100	pass
Zinc (Zn)	< 12,5	< 50	pass
sum	67	< 200	pass
Aluminium (Al)	39		
Chromium (Cr)	26		
Titanium (Ti)	< 1,3		
Zirconium (Zr)	< 1,3		
Iron (Fe)	1,7		
Organic tin compounds ^[F] in mg/kg DIN CEN ISO / TS (2012-12)			
Dibutyltin (DBT)	< 0,2	< 0,5	pass
Dimethyltin (DMT)	< 0,2	< 0,5	pass
Diocetyl tin (DOT)	< 0,2	< 0,5	pass
Diphenyltin (DPHT)	< 0,2	< 0,5	pass
Dipropyltin (DPT)	< 0,2	< 0,5	pass
Monomethyltin (MMT)	< 0,2	< 0,5	pass
Monobutyltin (MBT)	< 0,2	< 0,5	pass
Monooctyltin (MOT)	< 0,2	< 0,5	pass
Monophenyltin (MPHT)	< 0,2	< 0,5	pass
Tetrabutyltin (TeBT)	< 0,2	< 0,5	pass
Tetraethyltin (TeET)	< 0,2	< 0,5	pass
Tetraoctylzinn (TeOT)	< 0,2	< 0,5	pass
Tributyltin (TBT)	< 0,02	< 0,025	pass
Tricyclohexyltin (TCyHT)	< 0,2	< 0,5	pass
Trimethyltin (TMT)	< 0,2	< 0,5	pass
Trioctyltin (TOT)	< 0,2	< 0,5	pass
Triphenyltin (TPHT)	< 0,2	< 0,5	pass
Tripropyltin (TPT)	< 0,2	< 0,5	pass
Bis(tributyltin)oxide (TBTO)	< 0,02	< 0,025	pass
Dibutyltin dichloride (DBTC)	< 0,2	< 0,5	pass

Parameter	5) Lacontra blando Lot 233026500	Salamander Requirements	Statement of conformity *
Alkyl phenols, ethoxylated alkyl phenols in mg/kg DIN EN ISO 18218-1 (2015-11)			
Octylphenol (OP)	<10	sum < 20	pass
Nonylphenol (NP)	<10	sum < 20	pass
Heptylphenol (HpP)	<10	sum < 20	pass
Pentylphenol (PeP)	<10	sum < 20	pass
Octylphenoethoxylates (OPEO)	< 20	sum < 100	pass
Nonylphenoethoxylates (NPEO)	< 20	sum < 100	pass
Phenols in mg/kg FILK-QMA 2046 – p2 (2021-10) ultrasonic extraction, methanol, 60 °C; 1h, HPLC-PDA			
Phenol	< 10	Sum < 20	pass
4-t-Butylphenol	< 10	1000	pass
pH value (22 °C) difference figure DIN EN ISO 4045 ^[A] (2018-09)	3,75 0,55	3,5 – 7,0	pass
Chlorinated phenols in mg/kg DIN EN ISO 17070 ^[A] (2015-05)			
Pentachlorophenol	< 0,1	< 0,3	pass
Tetrachlorophenols, each isomer	< 0,2	< 0,3	pass
Trichlorophenols, each isomer	< 0,2	< 0,3	pass
Dichlorophenols, each isomer	< 0,5	< 0,5	pass
Monochlorophenols, each isomer	< 0,5	< 0,5	pass
Process preservative agents in mg/kg dry weight DIN EN ISO 13365 -1 ^[A] (2020-12)			
2-Phenylphenol (OPP)	85	< 750	pass
4-Chlor-3-methylphenol (CMK)	120	< 300	pass
2-Thiocyanomethylthiobenzothiazol (TCMTB)	160	< 300	pass
N-Octylisothiazolinon (OIT)	36	< 100	pass
Triclosan	< 10	< 50	pass
5-Chlor-2-methyl-4-isothiazolin-3-one (CMIT)	< 1,0	< 1,0	pass
2-Mercaptobenzothiazol (2-MBT)	< 5,0	< 5,0	pass
Methylisothiazolinon (MIT)	< 1,0	< 1,0	pass
1,2-Benzothiazol-3-on (BIT)	< 1,0	< 1,0	pass
Dimethylfumarate (DMFu) in mg/kg DIN EN ISO 16186 (2021-9)	< 0,1	< 0,1	pass

Parameter	5) Lacontra blando Lot 233026500	Salamander Requirements	Statement of conformity *
Dyestuffs ^[F] potential sensitizing dyestuffs in mg/kg DIN 54231 (2005-11)			
Disperse Blue 1	< 5,0	< 15	pass
Disperse Blue 3	< 5,0	< 15	pass
Disperse Blue 7	< 5,0	< 15	pass
Disperse Blue 26	< 5,0	< 15	pass
Disperse Blue 35	< 5,0	< 15	pass
Disperse Blue 102	< 5,0	< 15	pass
Disperse Blue 106	< 5,0	< 15	pass
Disperse Blue 124	< 5,0	< 15	pass
Disperse Brown 1	< 5,0	< 15	pass
Disperse Orange 1	< 5,0	< 15	pass
Disperse Orange 3	< 5,0	< 15	pass
Disperse Orange 37/59/76	< 5,0	< 15	pass
C.I. Disperse Orange 76	< 5,0	< 15	pass
C.I. Disperse Red 1	< 5,0	< 15	pass
C.I. Disperse Red 11	< 5,0	< 15	pass
C.I. Disperse Red 17	< 5,0	< 15	pass
C.I. Disperse Yellow 1	< 5,0	< 15	pass
C.I. Disperse Yellow 3	< 5,0	< 15	pass
C.I. Disperse Yellow 9	< 5,0	< 15	pass
C.I. Disperse Yellow 39	< 5,0	< 15	pass
C.I. Disperse Yellow 49	< 5,0	< 15	pass

Parameter	5) Lacontra blando Lot 233026500	Salamander Requirements	Statement of conformity *
Dyestuffs ^[F] carcinogenic, teragoneic or toxic for reproduction in mg/kg DIN 54231 (2005-11)			
Acid Red 26	< 5,0	< 15	pass
Basic Blue 26	< 5,0	< 15	pass
Basic Green4	< 5,0	< 15	pass
Basic Green4	< 5,0	< 15	pass
Basic Green4	< 5,0	< 15	pass
Basic Red 9	< 5,0	< 15	pass
Basic Violet 3	< 5,0	< 15	pass
Basic Violet 14	< 5,0	< 15	pass
Direct Black 28	< 5,0	< 15	pass
Direct Black 38	< 5,0	< 15	pass
Direct Blue 6	< 5,0	< 15	pass
Direct Red 28	< 5,0	< 15	pass
Disperse Blue 1	< 5,0	< 15	pass
Disperse Orange 11	< 5,0	< 15	pass
Disperse Orange 149	< 5,0	< 15	pass
Disperse Yellow 3	< 5,0	< 15	pass
Disperse Yellow 23	< 5,0	< 15	pass
Disperse Red 151	< 5,0	< 15	pass
Disperse Yellow 7	< 5,0	< 15	pass
Disperse Yellow 56	< 5,0	< 15	pass
Navy Blue	< 5,0	< 15	pass
Solvent Red 23	< 5,0	< 15	pass
Pigment Red104	< 5,0	< 15	pass
Pigment Yellow34	< 5,0	< 15	pass
Solvent Yellow 1 (Aniline Yellow/4-Aminosazobenzene)	< 5,0	< 15	pass
Solvent Yellow 2 (o-Aminoazotoluene/o-Aminoazotoluol)	< 5,0	< 15	pass
Direct Brown 95	< 5,0	< 15	pass
Direct Blue 15	< 5,0	< 15	pass
Acid Red 114	< 5,0	< 15	pass
4-Chlor-o-toluidiniumchlorid, Fast Red	< 5,0	< 15	pass
Basic Yellow 2	< 5,0	< 15	pass
4,4'-bis(dimethylamino)-4''- (methylamino)trityl alcohol [Solvent Violet 8]	< 5,0	< 15	
Solvent Blue 4 [4-(Dimethylamino)-5,8- dihydronaphthalen-1-yl]{bis[4- (dimethylamino)phenyl]}methanol]	< 5,0	< 15	pass

Parameter	5) Lacontra blando Lot 233026500	Salamander Requirements	Statement of conformity *
Chlorinated paraffins ^[F] in mg/kg ultrasonic extraction with DCM/n-hexane GC-MS-MS SCCP (C10 – C13) MCCP (C14 – C17)	< 50 < 50	< 50 < 50	pass pass
Chloralkane long-chain (C18 – C20) ^[F] Sum in mg/kg DIN EN ISO 18219-1 (2021-09) DIN EN ISO 18219-2 (2021-09)	< 500 ¹⁾	< 500	pass
Tris(2-chloroethyl)phosphate (TCEP) in mg/kg DIN EN ISO 16181-1 (2021-07)	< 10	< 10	pass
Heavy metals ^[F] in mg/kg on dry weight DIN EN ISO 17072-2 (2019-07) Digestion: Microwave (Aqua regia) Arsenic (As) Cadmium (Cd) Mercury (Hg) Lead (Pb) Nickel (Ni) Tin (Sn) Antimony (Sb) Cobalt (Co)	< 1,25 < 0,25 < 0,13 < 1,25 < 2,0 < 0,25 < 1,25 < 1,25	< 10 < 10 < 0,5 < 30 < 10 < 0,25 < 25 < 10	pass pass pass pass pass pass pass pass
Pesticides, apolar ^[F] Sum ²⁾ in mg/kg extraction with acetone (ASE), GC-MS	< 0,10	< 0,5	pass
Pesticides, polar ^[F] Sum ²⁾ in mg/kg extraction with methanol (ASE), ESI-LC/MS-MS	< 0,10	< 0,5	pass

Parameter	5) Lacontra blando Lot 233026500	Salamander Requirements	Statement of conformity *
PFCs; Per- und polyflourinated compounds E DIN EN ISO 23702 (2021-10) in mg/kg			
PFOS	< 0,025	< 0,025	pass
PFOA	< 0,025	< 0,025	pass
PFUdA	< 0,025	< 0,025	pass
PFDaA	< 0,025	< 0,025	pass
PFTTrDA	< 0,025	< 0,025	pass
PFTTeDA	< 0,025	< 0,025	pass
PFHpA	< 0,025	< 0,025	pass
PFNA	< 0,025	< 0,025	pass
PFDA	< 0,025	< 0,025	pass
PFBS	< 0,025	< 0,025	pass
PFHxS	< 0,025	< 0,025	pass
PFHpS	< 0,025	< 0,025	pass
PFDS	< 0,025	< 0,025	pass
PFOSA	< 0,025	< 0,025	pass
PFBA	< 0,025	< 0,025	pass
PFPA	< 0,025	< 0,025	pass
PFHxA	< 0,025	< 0,025	pass
PF-3,7-DMOA	< 0,025	< 0,025	pass
HPFHpA	< 0,025	< 0,025	pass
H2PFDA	< 0,025	< 0,025	pass
H4PFOS 6-2	< 0,025	< 0,025	pass
FTA 6-2	< 0,025	< 0,025	pass
FTA 8-2	< 0,025	< 0,025	pass
FTA 10-2	< 0,025	< 0,025	pass
FTOH 4-2	< 0,025	< 0,025	pass
FTOH 6-2	< 0,025	< 0,025	pass
FTOH 8-2	< 0,025	< 0,025	pass
FTOH 10-2	< 0,025	< 0,025	pass
N-MeFOSE	< 0,025	< 0,025	pass
N-EtFOSE	< 0,025	< 0,025	pass
N-MeFOSA	< 0,025	< 0,025	pass
N-EtFOSA	< 0,025	< 0,025	pass
APFO	< 0,025	< 0,025	pass
H4PFUnA	< 0,025	< 0,025	pass
POSF	< 0,025	< 0,025	pass
8:2 FTS	< 0,025	< 0,025	pass
Me-PFOA	< 0,025	< 0,025	pass
Et-PFOA	< 0,025	< 0,025	pass
8:2 FTMA	< 0,025	< 0,025	pass
10:2 FTS	< 0,025	< 0,025	pass

Parameter	6) Lacontra eco extra, Lot 233016900	Salamander Requirements	Statement of conformity *
Chromium (VI) - content in mg/kg dry weight DIN EN ISO 17075-2 ^[A] (2017-05) Ion chromatography post column reaction recovery rate in %	< 3,0 43,2	< 3,0	pass
Chromium (VI) – content Aging DIN EN ISO 10195 (2021-10) Method A2 Content in mg/kg dry weight DIN EN ISO 17075-2 ^[A] (2017-05) post column deviatiation recovery rate in %	< 3,0 60,2	< 3,0	pass
pH value (22 °C) difference figure DIN EN ISO 4045 ^[A] (2018-09)	3,80 0,60	3,5 – 7,0	pass

Parameter	7) Universal natur, Lot 225051300	Salamander Requirements	Statement of conformity *
Chromium (VI) - content in mg/kg dry weight DIN EN ISO 17075-2 ^[A] (2017-05) Ion chromatography post column reaction recovery rate in %	< 3,0 98,4	< 3,0	pass
Chromium (VI) – content Aging DIN EN ISO 10195 (2021-10) Method A2 Content in mg/kg dry weight DIN EN ISO 17075-2 ^[A] (2017-05) post column deviatiation recovery rate in %	< 3,0 95,8	< 3,0	pass
Heavy metals, extractable ^[F] in mg/kg on dry weight DIN EN ISO 17072-1 (2019-07) Antimony (Sb) Arsenic (As) Lead (Pb) Cadmium (Cd) Cobalt (Co) Copper (Cu) Nickel (Ni) Mercury (Hg) Barium (Ba) Selenium (Se) Zinc (Zn) sum Aluminium (Al) Chromium (Cr) Titanium (Ti) Zirconium (Zr) Iron (Fe)	< 1,3 < 0,2 < 0,2 < 0,05 < 1,0 < 12,5 < 0,5 < 0,02 < 12,5 < 12,5 < 12,5 19 9,3 9,9 < 1,3 < 1,3 < 1,3	< 5,0 < 0,2 < 0,8 < 0,1 < 4,0 < 50 < 4,0 < 0,02 < 1000 < 100 < 50 < 200	pass pass pass pass pass pass pass pass pass pass pass pass

Parameter	7) Universal natur, Lot 225051300	Salamander Requirements	Statement of conformity *
Organic tin compounds ^[F] in mg/kg DIN CEN ISO / TS (2012-12)			
Dibutyltin (DBT)	< 0,2	< 0,5	pass
Dimethyltin (DMT)	< 0,2	< 0,5	pass
Dioctyltin (DOT)	< 0,2	< 0,5	pass
Diphenyltin (DPHT)	< 0,2	< 0,5	pass
Dipropyltin (DPT)	< 0,2	< 0,5	pass
Monomethyltin (MMT)	< 0,2	< 0,5	pass
Monobutyltin (MBT)	< 0,2	< 0,5	pass
Monooctyltin (MOT)	< 0,2	< 0,5	pass
Monophenyltin (MPHT)	< 0,2	< 0,5	pass
Tetrabutyltin (TeBT)	< 0,2	< 0,5	pass
Tetraethyltin (TeET)	< 0,2	< 0,5	pass
Tetraoctylzinn (TeOT)	< 0,2	< 0,5	pass
Tributyltin (TBT)	< 0,02	< 0,025	pass
Tricyclohexyltin(TCyHT)	< 0,2	< 0,5	pass
Trimethyltin (TMT)	< 0,2	< 0,5	pass
Trioctyltin (TOT)	< 0,2	< 0,5	pass
Triphenyltin (TPHT)	< 0,2	< 0,5	pass
Tripropyltin (TPT)	< 0,2	< 0,5	pass
Bis(tributyltin)oxide (TBTO)	< 0,02	< 0,025	pass
Dibutyltin dichloride (DBTC)	< 0,2	< 0,5	pass
Alkyl phenols, ethoxylated alkyl phenols in mg/kg DIN EN ISO 18218-1 (2015-11)			
Octylphenol (OP)	<10	sum < 20	pass
Nonylphenol (NP)	<10	sum < 20	pass
Heptylphenol (HpP)	<10	sum < 20	pass
Pentylphenol (PeP)	<10	sum < 20	pass
Octylphenoethoxylates (OPEO)	< 20	sum < 100	pass
Nonylphenoethoxylates (NPEO)	< 20	sum < 100	pass
Phenols in mg/kg FILK-QMA 2046 – p2 (2021-10) ultrasonic extraction, methanol, 60 °C; 1h, HPLC-PDA			
Phenol	< 10	Sum < 20	pass
4-t-Butylphenol	< 10	1000	pass
Formaldehyde content in mg/kg dry weight DIN EN ISO 17226-1 ^[A] (2021-05) HPLC- detection	< 2,0	< 10	pass
Glutaraldehyde content in mg/kg dry weight referring to DIN EN ISO 17226-1 ^[A] (2021-05) HPLC- detection	< 2,0	< 1000	pass

Parameter	7) Universal natur, Lot 225051300	Salamander Requirements	Statement of conformity *
pH value (22 °C) difference figure DIN EN ISO 4045 ^[A] (2018-09)	3,95 0,65	3,5 – 7,0	pass
Chlorinated phenols in mg/kg DIN EN ISO 17070 ^[A] (2015-05)			
Pentachlorophenol	< 0,1	< 0,3	pass
Tetrachlorophenols, each isomer	< 0,2	< 0,3	pass
Trichlorophenols, each isomer	< 0,2	< 0,3	pass
Dichlorophenols, each isomer	< 0,5	< 0,5	pass
Monochlorophenols, each isomer	< 0,5	< 0,5	pass
Process preservative agents in mg/kg dry weight DIN EN ISO 13365 -1 ^[A] (2020-12)			
2-Phenylphenol (OPP)	230	< 750	pass
4-Chlor-3-methylphenol (CMK)	120	< 300	pass
2-Thiocyanomethylthiobenzothiazol (TCMTB)	130	< 300	pass
N-Octylisothiazolinon (OIT)	27	< 100	pass
Triclosan	< 10	< 50	pass
5-Chlor-2-methyl-4-isothiazolin-3-one (CMIT)	< 1,0	< 1,0	pass
2-Mercaptobenzothiazol (2-MBT)	< 5,0	< 5,0	pass
Methylisothiazolinon (MIT)	< 1,0	< 1,0	pass
1,2-Benzothiazol-3-on (BIT)	< 1,0	< 1,0	pass
Dimethylfumarate (DMFu) in mg/kg DIN EN ISO 16186 (2021-9)	< 0,1	< 0,1	pass
Heavy metals ^[F] in mg/kg on dry weight DIN EN ISO 17072-2 (2019-07) Digestion: Microwave (Aqua regia)			
Arsenic (As)	< 1,25	< 10	pass
Cadmium (Cd)	< 0,25	< 10	pass
Mercury (Hg)	< 0,13	< 0,5	pass
Lead (Pb)	< 1,25	< 30	pass
Nickel (Ni)	< 2,0	< 10	pass
Tin (Sn)	< 0,25	< 0,25	pass
Antimony (Sb)	< 1,25	< 25	pass
Cobalt (Co)	< 1,25	< 10	pass

Parameter	MP 1) + 2)	Salamander Requirements	Statement of conformity *
Formaldehyde content in mg/kg dry weight DIN EN ISO 17226-1 ^[A] (2021-05) HPLC- detection	< 2,0	< 10	pass
Glutaraldehyde content in mg/kg dry weight referring to DIN EN ISO 17226-1 ^[A] (2021-05) HPLC- detection	< 2,0	< 1000	pass

Parameter	MP 5) + 6)	Salamander Requirements	Statement of conformity *
Formaldehyde content in mg/kg dry weight DIN EN ISO 17226-1 ^[A] (2021-05) HPLC- detection	< 2,0	< 10	pass
Glutaraldehyde content in mg/kg dry weight referring to DIN EN ISO 17226-1 ^[A] (2021-05) HPLC- detection	< 2,0	< 1000	pass

Parameter	MP 1) + 5)	Salamander Requirements	Statement of conformity *
Quinoline in mg/kg ultrasonic extraction with Acetone GC-MS-MS	< 20	< 50	pass
Benzene in mg/kg referring to E DIN EN ISO 16189 (2021-02)	< 5,0	< 5,0	pass

Parameter	MP 1) + 5)	Salamander Requirements	Statement of conformity *
Chlorinated benzenes and toluenes [F] Sum in mg/kg DIN EN 17137			
Chlorobenzene	< 0,15	sum < 1,0	pass
Dichlorobenzenes, all isomers ²⁾	< 0,15	sum < 1,0	pass
Trichlorobenzenes, all isomers	< 0,15	sum < 1,0	pass
Tetrachlorobenzenes, all isomers	< 0,15	sum < 1,0	pass
Pentachlorobenzenes, all isomers	< 0,15	sum < 1,0	pass
Hexachlorobenzene	< 0,15	sum < 1,0	pass
Chlorotoluenes, all isomers	< 0,15	sum < 1,0	pass
Dichlorotoluenes, all isomers	< 0,15	sum < 1,0	pass
Trichlorotoluenes, all isomers	< 0,15	sum < 1,0	pass
Tetrachlorotoluenes, all isomers	< 0,15	sum < 1,0	pass
Pentachlorotoluenes	< 0,15	sum < 1,0	pass
Di-C6-C8-branched alkylphthalates, C7 rich (DIHP) in mg/kg DIN EN ISO 16181-1 (2021-07)	< 500	< 1000	pass

results marked with "<" indicate: value is below corresponding limit of quantitation of the test procedure

1) Due to matrix composition, no lower limit of quantification was possible.

2) The single substances are listed in the annex.

u.o. under observation

*) Decision rule: "pass" $\hat{=}$ the mean value is within the tolerance;
"fail" $\hat{=}$ the mean value lies outside the tolerance

FILK gGmbH

Dr. Ines Stachel
Deputy Head of Test Laboratory

Annexes: 1) results of single substances pesticides
2) CAS numbers