



Pesticides¹ as per Oeko-Tex[®] Standard 100

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Pesticides¹ as per Oeko-Tex[®] Standard 100

Analysing Period as of 2021

ANALYSIS OF CHEMICAL RESIDUES IN RAW COTTON



Pesticides¹ as per Oeko-Tex® Standard 100

Analysing Period as of 2021

Product Classes + Limit Values (mg/kg)²: I = 0.5 / II-IV = 1.0

Growth	Variety	Year of Analysis											
		2020		2019		2018		2017		2016		2021	
		Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg
Israel	Pima											n.d.	n.d.
Pakistan												n.d.	n.d.
Turkey												Acetamidrid 0.37	0.37
Notes:	The substances according to the list in the current STANDARD 100 by OEKO-TEX® were included in the test. Pesticides which are not listed in the Oeko-Tex® Standard 100 must not be taken into consideration while composing the summation limit value according to Oeko-Tex® Standard 100. However, they will be specifically reported in the summary table if such pesticides are detected. Limit of quantitation: Glyphosate and salts 0.40 mg/kg; all other pesticides 0.05 mg/kg for each single compound.												
Method:	Method for the determination of glyphosate and salts: Aqueous extraction; Extraction solution hydrochloric acid, 0.1 molar; Derivatisation with FMOC-Cl; Determination using HPLC-MS/MS. Method for the determination of all other substances: solvent extraction; determination using GC-MS/MS and HPLC-MS/MS.												



Pesticides¹ as per Oeko-Tex[®] Standard 100

Analysing Period 2011 to 2020



ANALYSIS OF CHEMICAL RESIDUES IN RAW COTTON

Pesticides¹ as per Oeko-Tex[®] Standard 100

Analysing Period 2011 to 2020

Product Classes + Limit Values (mg/kg)²: I = 0.5 / II-IV = 1.0

Growth	Variety	Year of Analysis									
		2020 (17 Dec + 01 Sep 2020)		2018 (17 August 2018)		2015 (18 September 2015)		2013 (26 June 2013)		2011 (16 August 2011)	
		Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg
Argentina		n.d.	n.d.	-	-	-	-	-	-	Cypermethrin 0.06	0.06
Benin		n.d.	n.d.	-	-	-	-	-	-	n.d.	n.d.
Brazil		Acetamiprid 0.05 2,4-D 0.17 Cyhalothrin 0.08	0.30	Cyfluthrin 0.06 Cyhalothrin 0.11	0.17	Malathion 0.08	0.08	Cypermethrin 0.10	0.10	Cypermethrin 0.45	0.45
Burkina Faso		-	-	-	-	n.d.	n.d.	n.d.	n.d.	-	-
Cameroon		-	-	n.d.	n.d.	-	-	-	-	n.d.	n.d.
Chad		-	-	-	-	n.d.	n.d.	Cyhalothrin 0.51	0.51	n.d.	n.d.
China		-	-	n.d.	n.d.	2,4-D 0.35	0.35	-	-	-	-
Egypt	Giza 96	Profenophos 0.08	0.08	-	-	-	-	-	-	-	-
	Giza 88	-	-	-	-	-	-	Cyhalothrin 0.06 Cypermethrin 0.05	0.11	Cypermethrin 0.05 Profenophos 0.61	0.66
Greece		Acetamiprid 0.07 2,4-D 0.08	0.15	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	Cypermethrin 0.08	0.08
India		Cypermethrin 0,06	0.06	Cypermethrin 0.05 Profenophos 0.12	0.17	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Israel	Acalpi	-	-	n.d.	n.d.	-	-	n.d.	n.d.	-	-
	Pima	-	-	-	-	-	-	n.d.	n.d.	-	-
	Pima Organic	-	-	-	-	-	-	-	-	n.d.	n.d.
Ivory Coast		n.d.	n.d.	n.d.	n.d.	-	-	-	-	-	-
Kazakhstan		DEF 0.06	0.06	n.d.	n.d.	Profemophos 0.09	0.09	n.d.	n.d.	n.d.	n.d.
Kyrgyzstan		-	-	-	-	-	-	-	-	n.d.	n.d.



ANALYSIS OF CHEMICAL RESIDUES IN RAW COTTON

Pesticides¹ as per Oeko-Tex® Standard 100

Analysing Period 2011 to 2020

Product Classes + Limit Values (mg/kg)²: I = 0.5 / II-IV = 1.0

Growth	Variety	Year of Analysis									
		2020 [17 Dec + 01 Sep 2020]		2018 [17 August 2018]		2015 [18 September 2015]		2013 [26 June 2013]		2011 [16 August 2011]	
		Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg
Mali		-	-	2.4-D 0.07	0.07	n.d.	n.d.	-	-	-	-
Pakistan		-	-	n.d.	n.d.	Cypermethrin 0.12 MCPA 0.15	0.27	n.d.	n.d.	n.d.	n.d.
Spain		Mecoprop 0.09	0.09	Cypermethrin 0.06	0.06	n.d.	n.d.	Cypermethrin 0.09	0.09	-	-
	ELS	-	-	-	-	-	-	-	-	n.d.	n.d.
Sudan	Acala	-	-	n.d.	n.d.	-	-	-	-	-	-
	Barakat	-	-	-	-	-	-	n.d.	n.d.	n.d.	n.d.
Tajikistan		-	-	-	-	n.d.	n.d.	n.d.	n.d.	-	-
Turkmenistan		-	-	n.d.	n.d.	-	-	-	-	-	-
Turkey		-	-	Cyhalothrin 0.06	0.06	-	-	-	-	-	-
USA	Upland	n.d.	n.d.	-	-	-	-	-	-	-	-
	EMOT	-	-	DEF 0.40	0.40	-	-	-	-	n.d.	n.d.
	Texas	-	-	-	-	-	-	n.d.	n.d.	-	-
	Pima	n.d.	n.d.	-	-	Cyfluthrin 0.07	0.07	n.d.	n.d.	-	-
Uzbekistan		-	-	-	-	n.d.	n.d.	-	-	n.d.	n.d.

Notes: Pesticides which are not listed in the Oeko-Tex® Standard 100 must not be taken into consideration while composing the summation limit value according to Oeko-Tex® Standard 100. However, they will be specifically reported in the summary table if such pesticides are detected.

The following method was used for the determination of glyphosate and salts: Aqueous extraction; Extraction solution hydrochloric acid, 0.1 molar; Derivatisation with FMOC-Cl; Determination using HPLC-MS/MS.

The separation and quantitative determination of all other substances listed below was carried out by means of solvent extraction and gas chromatography with mass selective detector (GC/MS) resp. high performance liquid chromatography with mass selective detector (LC/MS).



ANALYSIS OF CHEMICAL RESIDUES IN RAW COTTON

Pesticides¹ as per Oeko-Tex[®] Standard 100

Analysing Period 2011 to 2020

Product Classes + Limit Values (mg/kg)²: I = 0.5 / II-IV = 1.0

Growth	Variety	Year of Analysis									
		2020 (17 Dec + 01 Sep 2020)		2018 (17 August 2018)		2015 (18 September 2015)		2013 (26 June 2013)		2011 (16 August 2011)	
		Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg
2020:	Limit of quantitation: Glyphosate and salts 0.40 mg/kg; all other pesticides 0.05 mg/kg for each single compound. The substances according to the list in the current STANDARD 100 by OEKO-TEX [®] were included in the test.										
2018:	<p>The following substances were included in the test:</p> <p>Acetamiprid, Aldrin, Azinophosethyl, Azinophosmethyl, Bromophosethyl, Captafol, Carbaryl, Chlorbenzilat, Chlordane, Chlordimeform, Chlorphenvinphos, Coumaphos, Cyfluthrin, Cyhalothrin, Cypermethrin, DDD, DDE, DDT, DEF, Deltamethrin, Diazin.d. Dichlorprop, Dicrothophos, Dieldrin, Dimethoat, Dinoseb und Salze, Dinotefuran, Endosulfan α-, Endosulfan β-, Endrin, Esfenvalerat, Fenvalerat, Heptachlor, Heptachlorepoxyd, trans-Heptachlorepoxyd, Hexachlorbenzol, Hexachlorcyclohexan α-, Hexachlorcyclohexan β-, Hexachlorcyclohexan δ-, Isodrin, Kelevan, Kepon, Lindan, Malathion, MCPA, MCPB, Mecoprop, Methamidophos, Methoxychlor, Mirex, Monocrotophos, Nitenpyram, Parathion, Parathionmethyl, Perthan, Phosdrin/Mevinphos, Phosphamidon, Profenophos, Propethamphos, Quinalphos, Strobán, Telodrin, Thiamethoxam, Toxaphene, Trifluralin, 2,4-D, 2,4,5-T.</p> <p>Detection limit: Toxaphen 0.05 mg/kg; other pesticides 0.01 mg/kg.</p>										
2013-2015:	<p>The following substances were included in the test:</p> <p>Aldrin, Azinophosethyl, Azinophosmethyl, Bromophosethyl, Camphechlor (Toxaphen), Captafol, Carbaryl, Chlorbenzilat, Chlordane, Chlordimeform, Chlorphenvinphos, Coumaphos, Cyfluthrin, Cyhalothrin, Cypermethrin, DDD, DDE, DDT, DEF, Deltamethrin, Diazin.d. Dichlorprop, Dicrothophos, Dieldrin, Dimethoat, Dinoseb und Salze, Endosulfan α-, Endosulfan β-, Endrin, Esfenvalerat, Fenvalerat, Heptachlor, cis-Heptachlorepoxyd, trans-Heptachlorepoxyd, Hexachlorbenzol, Hexachlorcyclohexan α-, Hexachlorcyclohexan β-, Hexachlorcyclohexan δ-, Isodrin, Kelevan, Kepon, Lindan, Malathion, MCPA, MCPB, Mecoprop, Methamidophos, Mirex, Monocrotophos, Parathion, Parathionmethyl, Permethrin, Perthan, Phosdrin/Mevinphos, Phosphamidon, Profenophos, Propethamphos, Quinalphos, Strobán, Telodrin, Toxaphene, Trifluralin, 2,4-D, 2,4,5-T.</p> <p>Detection limit: Toxaphen 0.05 mg/kg; other pesticides 0.01 mg/kg.</p>										
2005-2011:	<p>The following substances were included in the test:</p> <p>Aldrin, Azinophosethyl, Azinophosmethyl, Bromophosethyl, Camphechlor (Toxaphen), Captafol, Carbaryl, Chlorbenzilat, Chlordane, Chlordimeform, Chlorphenvinphos, Coumaphos, Cyfluthrin, Cyhalothrin, Cypermethrin, o.p'-DDD, p.p'-DDD, o.p'-DDE, p.p'-DDE, o.p'-DDT, p.p'-DDT, DEF, Deltamethrin, Diazin.d. Dichlorprop, Dicrothophos, Dieldrin, Dimethoat, Dinoseb, Dinosebacetat, Endosulfan 1, Endosulfan 2, Endrin, Esfenvalerat, Fenvalerat, Heptachlor, cis-Heptachlorepoxyd, trans-Heptachlorepoxyd, Hexachlorbenzol, Hexachlorcyclohexan α-, Hexachlorcyclohexan β-, Hexachlorcyclohexan δ-, Isodrin, Kelevan, Kepon, γ-Lindan (Hexachlorcyclohexan), Malathion, MCPA, MCPB, Mecoprop, Methamidophos, Methoxychlor, Mirex, Monocrotophos, Parathionethyl, Parathionmethyl, Permethrin, Perthan, Phosdrin/Mevinphos, Phosphamidon, Profenophos, Propethamphos, Quinalphos, Strobán, Telodrin, Trifluralin, 2,4-D, 2,4,5-T.</p> <p>Detection limit: Toxaphen 0.05 mg/kg; other pesticides 0.01 mg/kg.</p>										



Pesticides¹ as per Oeko-Tex[®] Standard 100

Analysing Period 2001 to 2010

ANALYSIS OF CHEMICAL RESIDUES IN RAW COTTON



Pesticides¹ as per Oeko-Tex[®] Standard 100

Analysing Period 2001 to 2010

Product Classes + Limit Values (mg/kg)²: I = 0.5 / II-IV = 1.0

Growth	Variety	Year of Analysis											
		2009 (28 December 2009)		2008 (25 September 2008)		2007 (22 June 2007)		2005 (23 May 2005)		2004 (05 April 2004)		2002 (09 December 2002)	
		Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg
Benin		-	-	-	-	-	-	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Brazil		Cypermethrin 0.10 Dieldrin 0.09	0.19	n.d.	n.d.	-	-	-	-	-	-	-	-
	Mato Grosso	-	-	-	-	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	Endosulfan 1 0.077 Endosulfan 2 0.250	0.3270
Burkina Faso		n.d.	n.d.	n.d.	n.d.	-	-	-	-	-	-	-	-
Cameroon		n.d.	n.d.	-	-	-	-	n.d.	n.d.	-	-	n.d.	n.d.
Chad		Dieldrin 0.07 Profenophos 0.07	0.14	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
China	ELS	-	-	n.d.	n.d.	-	-	-	-	-	-	-	-
Egypt	Giza 70	-	-	-	-	-	-	-	-	n.d.	n.d.	-	-
	Giza 86	Dieldrin 0.09 Profenophos 0.16	0.25	n.d.	n.d.	-	-	-	-	n.d.	n.d.	n.d.	n.d.
	Giza 88	-	-	-	-	-	-	-	-	-	-	n.d.	n.d.
Greece		DEF 1.20	1.20	-	-	n.d.	n.d.	-	-	n.d.	n.d.	-	-
India		Cyhalotrin 0.09 Cypermethrin 0.35 Dieldrin 0.05	0.49	-	-	-	-	-	-	-	-	-	-
	MCU-5	-	-	n.d.	n.d.	-	-	-	-	-	-	-	-
	Mech 1	-	-	-	-	n.d.	n.d.	-	-	-	-	-	-
	Organic	-	-	-	-	n.d.	n.d.	-	-	-	-	-	-
	S-6	-	-	n.d.	n.d.	n.d.	n.d.	-	-	-	-	-	-



ANALYSIS OF CHEMICAL RESIDUES IN RAW COTTON

Pesticides¹ as per Oeko-Tex[®] Standard 100

Analysing Period 2001 to 2010

Product Classes + Limit Values (mg/kg)²: I = 0.5 / II-IV = 1.0

Growth	Variety	Year of Analysis											
		2009 [28 December 2009]		2008 [25 September 2008]		2007 [22 June 2007]		2005 [23 May 2005]		2004 [05 April 2004]		2002 [09 December 2002]	
		Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg
Israel		Cypermethrin 0.51	0.51	-	-	-	-	-	-	-	-	-	-
	Acala	-	-	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
	Pima	-	-	-	-	-	-	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Kazakhstan		Dieldrin 0.46	0.46	n.d.	n.d.	n.d.	n.d.	-	-	-	-	-	-
Mali		Dieldrin 0.24	0.24	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Nigeria		-	-	-	-	-	-	n.d.	n.d.	-	-	-	-
Pakistan		Dieldrin 0.13	0.13	n.d.	n.d.	-	-	-	-	-	-	-	-
Senegal		-	-	-	-	-	-	n.d.	n.d.	n.d.	n.d.	-	-
Sudan	Acala	-	-	-	-	-	-	n.d.	n.d.	-	-	-	-
	Barakat	Dieldrin 0.15	0.15	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Syria		-	-	-	-	n.d.	n.d.	-	-	-	-	n.d.	n.d.
Tanzania		Dieldrin 0.08	0.08	n.d.	n.d.	-	-	-	-	-	-	-	-
	rgd.	-	-	-	-	n.d.	n.d.	-	-	-	-	-	-
Turkey	LS	-	-	n.d.	n.d.	-	-	-	-	-	-	-	-
	Eastern rg.	-	-	-	-	-	-	-	-	n.d.	n.d.	-	-
	Southeast rg.	-	-	-	-	-	-	n.d.	n.d.	-	-	-	-



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Analysing Period 2001 to 2010

Product Classes + Limit Values (mg/kg)²: I = 0.5 / II-IV = 1.0

Growth	Variety	Year of Analysis											
		2009 (28 December 2009)		2008 (25 September 2008)		2007 (22 June 2007)		2005 (23 May 2005)		2004 (05 April 2004)		2002 (09 December 2002)	
		Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg
USA	Calif. Acala	-	-	-	-	n.d.	n.d.	-	-	-	-	-	-
	Calif. Pima	-	-	-	-	n.d.	n.d.	n.d.	n.d.	-	-	n.d.	n.d.
	El Paso Pima	-	-	-	-	-	-	-	-	-	-	n.d.	n.d.
	Mem./Eastern	-	-	-	-	-	-	n.d.	n.d.	-	-	-	-
	Pima	n.d.	n.d.	-	-	-	-	-	-	n.d.	n.d.	-	-
	SJV Calif.	-	-	n.d.	n.d.	-	-	-	-	-	-	n.d.	n.d.
Uzbekistan		n.d.	n.d.	n.d.	n.d.	-	-	-	-	n.d.	n.d.	n.d.	n.d.
Zimbabwe		Esfenvalerat/ Fenvalerat 0.05	0.05	-	-	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Notes:	<p>Pesticides which are not listed in the Oeko-Tex® Standard 100 must not be taken into consideration while composing the summation limit value according to Oeko-Tex® Standard 100. However, they will be specifically reported in the summary table if such pesticides are detected.</p> <p>The separation and quantitative determination of all other substances listed below was carried out by means of solvent extraction and gas chromatography with mass selective detector (GC/MS) resp. high performance liquid chromatography with mass selective detector (LC/MS).</p>												
2005-2011:	<p>The following substances were included in the test:</p> <p>Aldrin, Azinophosethyl, Azinophosmethyl, Bromophosethyl, Camphechlor (Toxaphen), Captafol, Carbaryl, Chlorbenzilat, Chlordane, Chlordimeform, Chlorphenvinphos, Coumaphos, Cyfluthrin, Cyhalothrin, Cypermethrin, o,p'-DDD, p,p'-DDD, o,p'DDE, p,p'-DDE, o,p'-DDT, p,p'-DDT, DEF, Deltamethrin, Diazinon, Dichlorprop, Dicrothophos, Dieldrin, Dimethoat, Dinoseb, Dinosebacetat, Endosulfan 1, Endosulfan 2, Endrin, Esfenvalerat, Fenvalerat, Heptachlor, cis-Heptachlorepoxyd, trans-Heptachlorepoxyd, Hexachlorbenzol, Hexachlorcyclohexan α-, Hexachlorcyclohexan β-, Hexachlorcyclohexan δ-, Isodrin, Kelevan, Kepon, γ-Lindan (Hexachlorcyclohexan), Malathion, MCPA, MCPB, Mecoprop, Methamidophos, Methoxychlor, Mirex, Monocrotophos, Parathionethyl, Parathionmethyl, Permethrin, Perthan, Phosdrin/Mevinphos, Phosphamidon, Profenophos, Propethamphos, Quinalphos, Strobilan, Telodrin, Trifluralin, 2,4-D, 2,4,5-T.</p> <p>Detection limit: Toxaphen 0.05 mg/kg; other pesticides 0.01 mg/kg.</p>												



Pesticides¹ as per Oeko-Tex[®] Standard 100

Analysing Period 1991 to 2000



ANALYSIS OF CHEMICAL RESIDUES IN RAW COTTON

Pesticides¹ as per Oeko-Tex[®] Standard 100

Analysing Period 1991 to 2000

Product Classes + Limit Values (mg/kg)²: I = 0.5 / II-IV = 1.0

Growth	Variety	Year of Analysis											
		2000 (09 November 2000)		1998 (26 February 1998)		1996 (30 October 1996)		1993 (10 January 1993)		1992 (13 November 1992)		1991 (28 November 1991)	
		Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg
Argentina		DDT 0.034	0.0340	-	-	-	-	-	-	Lindan 0.002	0.0020	Lindan 0.004	0.0040
Australia		-	-	-	-	-	-	DDT 0.031 Lindan 0.002	0.0330	-	-	-	-
Benin		n.d.	n.d.	-	-	-	-	-	-	-	-	-	-
Burkina Faso		-	-	n.d.	n.d.	-	-	-	-	-	-	-	-
Cameroon		n.d.	n.d.	-	-	-	-	-	-	-	-	-	-
Chad		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	-	-	Lindan 0.002	0.0020	-	-
Colombia	Acala	-	-	-	-	-	-	-	-	-	-	Lindan 0.002	0.002
Egypt		n.d.	n.d.	-	-	-	-	-	-	-	-	-	-
Greece		-	-	-	-	-	-	-	-	DDT 0.037 Lindan 0.005	0.0420	-	-
Israel		n.d.	n.d.	-	-	-	-	-	-	Lindan 0.006	0.0060	-	-
	Acala	-	-	n.d.	n.d.	-	-	-	-	-	-	-	-
	Pima	-	-	DEF 0.008	0.008	-	-	-	-	-	-	-	-
Ivory Coast		-	-	-	-	n.d.	n.d.	-	-	n.d.	n.d.	-	-
Mali		DDT 0.048 Lindan 0.028	0.0760	HCH 0.077 Lindan 0.250	0.3270	n.d.	n.d.	DDT 0.014 Lindan 0.002 Dieldrin 0.015	0.0310	-	-	-	-
Mexico	Juarez Ac	-	-	n.d.	n.d.	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	n.d.	n.d.
	Mante	-	-	-	-	-	-	-	-	-	-	n.d.	n.d.

ANALYSIS OF CHEMICAL RESIDUES IN RAW COTTON



Pesticides¹ as per Oeko-Tex[®] Standard 100

Analysing Period 1991 to 2000

Product Classes + Limit Values (mg/kg)²: I = 0.5 / II-IV = 1.0

Growth	Variety	Year of Analysis											
		2000 (09 November 2000)		1998 (26 February 1998)		1996 (30 October 1996)		1993 (10 January 1993)		1992 (13 November 1992)		1991 (28 November 1991)	
		Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg
Paraguay		-	-	-	-	n.d.	n.d.	-	-	DDT 0.041 Lindan 0.002	0.0430	-	-
Peru	del Cerro	-	-	-	-	-	-	-	-	-	-	DDT 0.009 Lindan 0.003	0.0120
	Pima	-	-	-	-	-	-	-	-	-	-	DDT 0.075 Lindan 0.002	0.0770
Senegal		-	-	-	-	n.d.	n.d.	-	-	-	-	-	-
Sudan	Barakat	n.d.	n.d.	-	-	-	-	-	-	-	-	-	-
	Acala	n.d.	n.d.	n.d.	n.d.	-	-	-	-	-	-	-	-
	Gezira	-	-	n.d.	n.d.	-	-	-	-	-	-	-	-
	Rahad Acala	-	-	-	-	-	-	Lindan 0.001	0.0010	-	-	-	-
	Shambat	-	-	-	-	-	-	-	-	-	-	Lindan 0.002	0.0020
Syria		n.d.	n.d.	-	-	-	-	-	-	Lindan 0.003	0.0030	-	-
Tajikistan	ELS rgd.	-	-	-	-	-	-	DDT 0.046	0.0460	-	-	-	-
Togo		n.d.	n.d.	-	-	-	-	-	-	-	-	-	-
Turkey	rgd	-	-	-	-	n.d.	n.d.	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	DDT 0.027 Lindan 0.004	0.0310	Lindan 0.004	0.0040
	Hatay	-	-	-	-	-	-	-	-	-	-	Lindan 0.003	0.0030
Turkmenistan		-	-	DDT 0.0013 DEF 0.006	0.0073	HCH 0.005 Lindan 0.016	0.0210	-	-	n.d.	n.d.	-	-
	ELS rgd.	-	-	-	-	-	-	DDT 0.059	0.0590	-	-	-	-



ANALYSIS OF CHEMICAL RESIDUES IN RAW COTTON

Pesticides¹ as per Oeko-Tex® Standard 100

Analysing Period 1991 to 2000

Product Classes + Limit Values (mg/kg)²: I = 0.5 / II-IV = 1.0

Growth	Variety	Year of Analysis											
		2000 (09 November 2000)		1998 (26 February 1998)		1996 (30 October 1996)		1993 (10 January 1993)		1992 (13 November 1992)		1991 (28 November 1991)	
		Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg	Detected Pesticides in mg/kg	Total mg/kg
USA	Arizona	-	-	-	-	-	-	-	-	Lindan 0.0008	0.0008	-	-
	California	-	-	-	-	-	-	-	-	Lindan 0.0006	0.0006	-	-
	MOT	-	-	-	-	-	-	-	-	-	-	Lindan 0.004	0.0040
	Pima	n.d.	n.d.	DDT 0.350 DEF 0.010	0.360	n.d.	n.d.	-	-	Lindan 0.007	0.0070	Lindan 0.005	0.0050
	El Paso/Texas	n.d.	n.d.	DDT 0.064	0.064	n.d.	n.d.	-	-	DDT 0.0008 Lindan 0.0007	0.0015	-	-
Uzbekistan		n.d.	n.d.	n.d.	n.d.	Lindan 0.005	0.005	-	-	Lindan 0.004	0.0040	-	-
	ELS rgd	-	-	-	-	-	-	n.d.	n.d.	-	-	-	-
Zimbabwe		n.d.	n.d.	n.d.	n.d.	Lindan 0.005	0.0050	-	-	-	-	-	-
	Albar	-	-	-	-	-	-	DDT 0.019	0.0190	-	-	-	-
	Delm. Rgd	-	-	-	-	-	-	-	-	-	-	DDT 0.008 Lindan 0.003	0.0110
Notes:	<p>Pesticides which are not listed in the Oeko-Tex® Standard 100 must not be taken into consideration while composing the summation limit value according to Oeko-Tex® Standard 100. However, they will be specifically reported in the summary table if such pesticides are detected.</p> <p>The separation and quantitative determination of all other substances listed below was carried out by means of solvent extraction and gas chromatography with mass selective detector (GC/MS) resp. high performance liquid chromatography with mass selective detector (LC/MS).</p> <p>Detection limit: Toxaphen 0.05 mg/kg; other pesticides 0.01 mg/kg.</p>												