

Test Report No.: 68.431.22.5110.01R1

Dated: 2023-01-06



Sample Description : NYLON TONG 23 CM

Style No. / Name / Design No. : 751123 (SB0635FR)

P.O. / Order No. : 22000856

Buyer : IBILI MENAJE, S.A.

Country of Origin : CHINA

Country of Destination : SPAIN

Test Sample Receipt Date, Location : 2022-12-14, Shenzhen

Test Period, Location : From 2022-12-14 to 2022-12-23, Shenzhen

Test Result(s) : Refer to Section 3

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Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

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Purpose Of Examination / Conclusion:

Test Requested:	As specified by client, to test per the selected requirement(s) for the tested item(s) as stated in the Regulation (EC) No.1935/2004
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No.	Test Item(s)	Conclusion
1	Specific Migration of PAA	Pass
2	Specific Migration of PAAs	Pass

Remarks:

(1) The results relate only to the items tested.

(2) Samples are tested as received.

(3) The test item and samples were specified by the client

(4) "Pass" means the measured result is within a limit, even when extended by expanded uncertainty. "Fail" means the measured result is beyond a limit, even when extended by expanded uncertainty. "Inconclusive" means the measured result can be within or beyond a limit when extended by expanded uncertainty. The confidence level of the expanded uncertainty for "Pass", "Fail" and "Inconclusive" is 95%.

(5) This report supersedes previous report 68.431.22.5110.01 issued on 2023-01-03. As per client's request, update the sample description and add PO / Order Number.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
TÜV SÜD Group

Prepared by:

Reviewed by:



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Senior Project Coordinator

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Senior Project Coordinator

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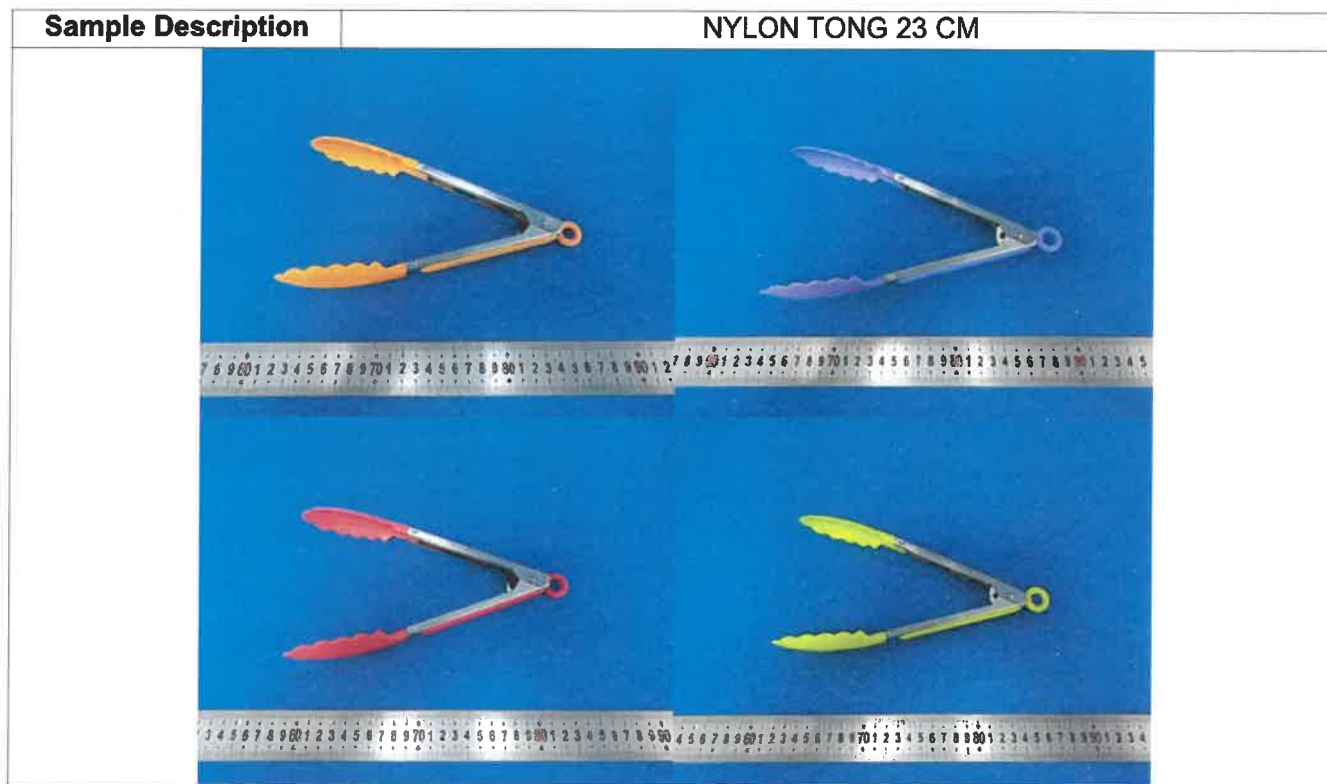
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1. Description of the Test Sample:



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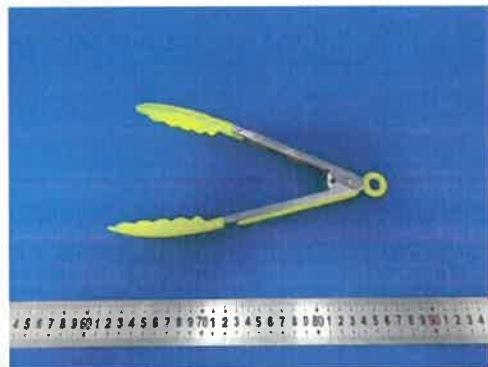
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2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description	Photograph
T1	001	Pink nylon plastic (Functional head of tong)	
T2	002	Purple nylon plastic (Functional head of tong)	
T3	003	Yellow nylon plastic (Functional head of tong)	

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T. No.	Sample No.	Colour and Description	Photograph
T4	004	Orange nylon plastic (Functional head of tong)	

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3. Test Result

3.1 Specific Migration of PAA

Test method: with reference to EN 13130-1:2004, follow by Ultraviolet and visible spectrophotometry (UV-Vis).

Test Conditions: 3% Acetic acid: 100 °C for 2 Hours

TEST ITEM	RESULT [mg/kg]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 001 1 st Migration	SAMPLE 001 2 nd Migration	SAMPLE 001 3 rd Migration		
Primary Aromatic Amine-Trial 1	ND	ND	ND	<0.01	<0.01
Primary Aromatic Amine-Trial 2	ND	ND	ND	<0.01	<0.01
Primary Aromatic Amine-Trial 3	ND	ND	ND	<0.01	<0.01
Conclusion:	Pass	Pass	Pass	--	--

TEST ITEM	RESULT [mg/kg]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 002 1 st Migration	SAMPLE 002 2 nd Migration	SAMPLE 002 3 rd Migration		
Primary Aromatic Amine-Trial 1	ND	ND	ND	<0.01	<0.01
Primary Aromatic Amine-Trial 2	ND	ND	ND	<0.01	<0.01
Primary Aromatic Amine-Trial 3	ND	ND	ND	<0.01	<0.01
Conclusion:	Pass	Pass	Pass	--	--

Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

3. "mg/kg" denotes milligram per kilogram

4. "ND" denotes below the Reporting limit

5. The specification was quoted from Regulation (EU) No. 284/2011 and Regulation (EU) No. 2020/1245.

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3.1 Specific Migration of PAA

Test method: with reference to EN 13130-1:2004, follow by Ultraviolet and visible spectrophotometry (UV-Vis).

Test Conditions: 3% Acetic acid: 100 °C for 2 Hours

TEST ITEM	RESULT [mg/kg]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 003 1 st Migration	SAMPLE 003 2 nd Migration	SAMPLE 003 3 rd Migration		
Primary Aromatic Amine-Trial 1	ND	ND	ND	<0.01	<0.01
Primary Aromatic Amine-Trial 2	ND	ND	ND	<0.01	<0.01
Primary Aromatic Amine-Trial 3	ND	ND	ND	<0.01	<0.01
Conclusion:	Pass	Pass	Pass	--	--

TEST ITEM	RESULT [mg/kg]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 004 1 st Migration	SAMPLE 004 2 nd Migration	SAMPLE 004 3 rd Migration		
Primary Aromatic Amine-Trial 1	ND	ND	ND	<0.01	<0.01
Primary Aromatic Amine-Trial 2	ND	ND	ND	<0.01	<0.01
Primary Aromatic Amine-Trial 3	ND	ND	ND	<0.01	<0.01
Conclusion:	Pass	Pass	Pass	--	--

Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

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4. "ND" denotes below the Reporting limit

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3.2 Specific Migration of PAAs

Test method: with reference to EN 13130-1:2004, follow by Liquid chromatography tandem mass spectrometer (LC-MS/MS). [Reporting Limit:0.002 mg/kg]

Test Conditions: 3% Acetic Acid: 100 °C for 2 Hours

TEST ITEM	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
	SAMPLE 001 1 st Migration	SAMPLE 001 2 nd Migration	SAMPLE 001 3 rd Migration	
4-Aminobiphenyl (4-ABP)-Trial 1	ND	ND	ND	<0.002
4-Aminobiphenyl (4-ABP)-Trial 2	ND	ND	ND	<0.002
4-Aminobiphenyl (4-ABP)-Trial 3	ND	ND	ND	<0.002
Aniline (ANL)-Trial 1	ND	ND	ND	<0.002
Aniline (ANL)-Trial 2	ND	ND	ND	<0.002
Aniline (ANL)-Trial 3	ND	ND	ND	<0.002
o-Anisidine (o-ASD)-Trial 1	ND	ND	ND	<0.002
o-Anisidine (o-ASD)-Trial 2	ND	ND	ND	<0.002
o-Anisidine (o-ASD)-Trial 3	ND	ND	ND	<0.002
Benzidine (BNZ)-Trial 1	ND	ND	ND	<0.002
Benzidine (BNZ)-Trial 2	ND	ND	ND	<0.002
Benzidine (BNZ)-Trial 3	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)-Trial 1	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)-Trial 2	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)-Trial 3	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)-Trial 1	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)-Trial 2	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)-Trial 3	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)-Trial 1	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)-Trial 2	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)-Trial 3	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)-Trial 1	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)-Trial 2	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)-Trial 3	ND	ND	ND	<0.002
4,4'-Methylenedianiline (4,4'-MDA)-Trial 1	ND	ND	ND	<0.002
4,4'-Methylenedianiline (4,4'-MDA)-Trial 2	ND	ND	ND	<0.002
4,4'-Methylenedianiline (4,4'-MDA)-Trial 3	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)-Trial 1	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)-Trial 2	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)-Trial 3	ND	ND	ND	<0.002
2-Methoxy-5-Methylaniline (2-M-5-MA)-Trial	ND	ND	ND	<0.002

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TEST ITEM	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
	SAMPLE 001 1 st Migration	SAMPLE 001 2 nd Migration	SAMPLE 001 3 rd Migration	
1				
2-Methoxy-5-Methylaniline (2-M-5-MA)-Trial 2	ND	ND	ND	<0.002
2-Methoxy-5-Methylaniline (2-M-5-MA)-Trial 3	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)-Trial 1	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)-Trial 2	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)-Trial 3	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)-Trial 1	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)-Trial 2	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)-Trial 3	ND	ND	ND	<0.002
o-Toluidine (o-T)-Trial 1	ND	ND	ND	<0.002
o-Toluidine (o-T)-Trial 2	ND	ND	ND	<0.002
o-Toluidine (o-T)-Trial 3	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)-Trial 1	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)-Trial 2	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)-Trial 3	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)-Trial 1	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)-Trial 2	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)-Trial 3	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)-Trial 1	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)-Trial 2	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)-Trial 3	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)-Trial 1	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)-Trial 2	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)-Trial 3	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)-Trial 1	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)-Trial 2	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)-Trial 3	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)-Trial 1	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)-Trial 2	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)-Trial 3	ND	ND	ND	<0.002
1,5-Diaminenaphthalene (1,5-DAN)-Trial 1	ND	ND	ND	<0.002
1,5-Diaminenaphthalene (1,5-DAN)-Trial 2	ND	ND	ND	<0.002
1,5-Diaminenaphthalene (1,5-DAN)-Trial 3	ND	ND	ND	<0.002
2-naphthylamine-Trial 1	ND	ND	ND	<0.002

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TEST ITEM	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
	SAMPLE 001 1 st Migration	SAMPLE 001 2 nd Migration	SAMPLE 001 3 rd Migration	
2-naphthylamine-Trial 2	ND	ND	ND	<0.002
2-naphthylamine-Trial 3	ND	ND	ND	<0.002
o-aminoazotoluene-Trial 1	ND	ND	ND	<0.002
o-aminoazotoluene-Trial 2	ND	ND	ND	<0.002
o-aminoazotoluene-Trial 3	ND	ND	ND	<0.002
5-nitro-o-toluidine-Trial 1	ND	ND	ND	<0.002
5-nitro-o-toluidine-Trial 2	ND	ND	ND	<0.002
5-nitro-o-toluidine-Trial 3	ND	ND	ND	<0.002
3,3'-dichlorobenzidine-Trial 1	ND	ND	ND	<0.002
3,3'-dichlorobenzidine-Trial 2	ND	ND	ND	<0.002
3,3'-dichlorobenzidine-Trial 3	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine-Trial 1	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine-Trial 2	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine-Trial 3	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)-Trial 1	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)-Trial 2	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)-Trial 3	ND	ND	ND	<0.002
4,4'-thiodianiline-Trial 1	ND	ND	ND	<0.002
4,4'-thiodianiline-Trial 2	ND	ND	ND	<0.002
4,4'-thiodianiline-Trial 3	ND	ND	ND	<0.002
4-amino azobenzene-Trial 1	ND	ND	ND	<0.002
4-amino azobenzene-Trial 2	ND	ND	ND	<0.002
4-amino azobenzene-Trial 3	ND	ND	ND	<0.002
Conclusion:	Pass	Pass	Pass	--

Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

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4. "ND" denotes below the Reporting Limit

5. The specification was quoted from Regulation (EU) No. 284/2011 and Regulation (EU) No. 2020/1245

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3.2 Specific Migration of PAAs

Test method: with reference to EN 13130-1:2004, follow by Liquid chromatography tandem mass spectrometer (LC-MS/MS). [Reporting Limit:0.002 mg/kg]

Test Conditions: 3% Acetic Acid: 100 °C for 2 Hours

TEST ITEM	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
	SAMPLE 002 1 st Migration	SAMPLE 002 2 nd Migration	SAMPLE 002 3 rd Migration	
4-Aminobiphenyl (4-ABP)-Trial 1	ND	ND	ND	<0.002
4-Aminobiphenyl (4-ABP)-Trial 2	ND	ND	ND	<0.002
4-Aminobiphenyl (4-ABP)-Trial 3	ND	ND	ND	<0.002
Aniline (ANL)-Trial 1	ND	ND	ND	<0.002
Aniline (ANL)-Trial 2	ND	ND	ND	<0.002
Aniline (ANL)-Trial 3	ND	ND	ND	<0.002
o-Anisidine (o-ASD)-Trial 1	ND	ND	ND	<0.002
o-Anisidine (o-ASD)-Trial 2	ND	ND	ND	<0.002
o-Anisidine (o-ASD)-Trial 3	ND	ND	ND	<0.002
Benzidine (BNZ)-Trial 1	ND	ND	ND	<0.002
Benzidine (BNZ)-Trial 2	ND	ND	ND	<0.002
Benzidine (BNZ)-Trial 3	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)-Trial 1	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)-Trial 2	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)-Trial 3	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)-Trial 1	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)-Trial 2	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)-Trial 3	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)-Trial 1	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)-Trial 2	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)-Trial 3	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)-Trial 1	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)-Trial 2	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)-Trial 3	ND	ND	ND	<0.002
4,4'-Methylenedianiline (4,4'-MDA)-Trial 1	ND	ND	ND	<0.002
4,4'-Methylenedianiline (4,4'-MDA)-Trial 2	ND	ND	ND	<0.002
4,4'-Methylenedianiline (4,4'-MDA)-Trial 3	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)-Trial 1	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)-Trial 2	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)-Trial 3	ND	ND	ND	<0.002
2-Methoxy-5-Methylaniline (2-M-5-MA)-Trial	ND	ND	ND	<0.002

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Lab 1 - Chemical testing and
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Lab 2 - Physical & mechanical
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TEST ITEM	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
	SAMPLE 002 1 st Migration	SAMPLE 002 2 nd Migration	SAMPLE 002 3 rd Migration	
1				
2-Methoxy-5-Methylaniline (2-M-5-MA)-Trial 2	ND	ND	ND	<0.002
2-Methoxy-5-Methylaniline (2-M-5-MA)-Trial 3	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)-Trial 1	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)-Trial 2	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)-Trial 3	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)-Trial 1	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)-Trial 2	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)-Trial 3	ND	ND	ND	<0.002
o-Toluidine (o-T)-Trial 1	ND	ND	ND	<0.002
o-Toluidine (o-T)-Trial 2	ND	ND	ND	<0.002
o-Toluidine (o-T)-Trial 3	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)-Trial 1	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)-Trial 2	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)-Trial 3	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)-Trial 1	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)-Trial 2	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)-Trial 3	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)-Trial 1	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)-Trial 2	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)-Trial 3	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)-Trial 1	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)-Trial 2	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)-Trial 3	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)-Trial 1	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)-Trial 2	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)-Trial 3	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)-Trial 1	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)-Trial 2	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)-Trial 3	ND	ND	ND	<0.002
1,5-Diaminenaphthalene (1,5-DAN)-Trial 1	ND	ND	ND	<0.002
1,5-Diaminenaphthalene (1,5-DAN)-Trial 2	ND	ND	ND	<0.002
1,5-Diaminenaphthalene (1,5-DAN)-Trial 3	ND	ND	ND	<0.002
2-naphthylamine-Trial 1	ND	ND	ND	<0.002

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TEST ITEM	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
	SAMPLE 002 1 st Migration	SAMPLE 002 2 nd Migration	SAMPLE 002 3 rd Migration	
2-naphthylamine-Trial 2	ND	ND	ND	<0.002
2-naphthylamine-Trial 3	ND	ND	ND	<0.002
o-aminoazotoluene-Trial 1	ND	ND	ND	<0.002
o-aminoazotoluene-Trial 2	ND	ND	ND	<0.002
o-aminoazotoluene-Trial 3	ND	ND	ND	<0.002
5-nitro-o-toluidine-Trial 1	ND	ND	ND	<0.002
5-nitro-o-toluidine-Trial 2	ND	ND	ND	<0.002
5-nitro-o-toluidine-Trial 3	ND	ND	ND	<0.002
3,3'-dichlorobenzidine-Trial 1	ND	ND	ND	<0.002
3,3'-dichlorobenzidine-Trial 2	ND	ND	ND	<0.002
3,3'-dichlorobenzidine-Trial 3	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine-Trial 1	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine-Trial 2	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine-Trial 3	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)-Trial 1	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)-Trial 2	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)-Trial 3	ND	ND	ND	<0.002
4,4'-thiodianiline-Trial 1	ND	ND	ND	<0.002
4,4'-thiodianiline-Trial 2	ND	ND	ND	<0.002
4,4'-thiodianiline-Trial 3	ND	ND	ND	<0.002
4-amino azobenzene-Trial 1	ND	ND	ND	<0.002
4-amino azobenzene-Trial 2	ND	ND	ND	<0.002
4-amino azobenzene-Trial 3	ND	ND	ND	<0.002
Conclusion:	Pass	Pass	Pass	--

Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

3. "mg/kg" denotes milligram per kilogram

4. "ND" denotes below the Reporting Limit

5. The specification was quoted from Regulation (EU) No. 284/2011 and Regulation (EU) No. 2020/1245

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Test Report No.: 68.431.22.5110.01R1

Dated: 2023-01-06

3.2 Specific Migration of PAAs

Test method: with reference to EN 13130-1:2004, follow by Liquid chromatography tandem mass spectrometer (LC-MS/MS). [Reporting Limit:0.002 mg/kg]

Test Conditions: 3% Acetic Acid: 100 °C for 2 Hours

TEST ITEM	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
	SAMPLE 003 1 st Migration	SAMPLE 003 2 nd Migration	SAMPLE 003 3 rd Migration	
4-Aminobiphenyl (4-ABP)-Trial 1	ND	ND	ND	<0.002
4-Aminobiphenyl (4-ABP)-Trial 2	ND	ND	ND	<0.002
4-Aminobiphenyl (4-ABP)-Trial 3	ND	ND	ND	<0.002
Aniline (ANL)-Trial 1	ND	ND	ND	<0.002
Aniline (ANL)-Trial 2	ND	ND	ND	<0.002
Aniline (ANL)-Trial 3	ND	ND	ND	<0.002
o-Anisidine (o-ASD)-Trial 1	ND	ND	ND	<0.002
o-Anisidine (o-ASD)-Trial 2	ND	ND	ND	<0.002
o-Anisidine (o-ASD)-Trial 3	ND	ND	ND	<0.002
Benzidine (BNZ)-Trial 1	ND	ND	ND	<0.002
Benzidine (BNZ)-Trial 2	ND	ND	ND	<0.002
Benzidine (BNZ)-Trial 3	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)-Trial 1	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)-Trial 2	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)-Trial 3	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)-Trial 1	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)-Trial 2	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)-Trial 3	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)-Trial 1	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)-Trial 2	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)-Trial 3	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)-Trial 1	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)-Trial 2	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)-Trial 3	ND	ND	ND	<0.002
4,4'-Methylenedianiline (4,4'-MDA)-Trial 1	ND	ND	ND	<0.002
4,4'-Methylenedianiline (4,4'-MDA)-Trial 2	ND	ND	ND	<0.002
4,4'-Methylenedianiline (4,4'-MDA)-Trial 3	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)-Trial 1	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)-Trial 2	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)-Trial 3	ND	ND	ND	<0.002
2-Methoxy-5-Methylaniline (2-M-5-MA)-Trial	ND	ND	ND	<0.002

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TEST ITEM	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
	SAMPLE 003 1 st Migration	SAMPLE 003 2 nd Migration	SAMPLE 003 3 rd Migration	
1				
2-Methoxy-5-Methylaniline (2-M-5-MA)-Trial 2	ND	ND	ND	<0.002
2-Methoxy-5-Methylaniline (2-M-5-MA)-Trial 3	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)-Trial 1	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)-Trial 2	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)-Trial 3	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)-Trial 1	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)-Trial 2	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)-Trial 3	ND	ND	ND	<0.002
o-Toluidine (o-T)-Trial 1	ND	ND	ND	<0.002
o-Toluidine (o-T)-Trial 2	ND	ND	ND	<0.002
o-Toluidine (o-T)-Trial 3	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)-Trial 1	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)-Trial 2	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)-Trial 3	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)-Trial 1	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)-Trial 2	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)-Trial 3	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)-Trial 1	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)-Trial 2	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)-Trial 3	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)-Trial 1	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)-Trial 2	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)-Trial 3	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)-Trial 1	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)-Trial 2	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)-Trial 3	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)-Trial 1	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)-Trial 2	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)-Trial 3	ND	ND	ND	<0.002
1,5-Diaminenaphthalene (1,5-DAN)-Trial 1	ND	ND	ND	<0.002
1,5-Diaminenaphthalene (1,5-DAN)-Trial 2	ND	ND	ND	<0.002
1,5-Diaminenaphthalene (1,5-DAN)-Trial 3	ND	ND	ND	<0.002
2-naphthylamine-Trial 1	ND	ND	ND	<0.002

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TEST ITEM	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
	SAMPLE 003 1 st Migration	SAMPLE 003 2 nd Migration	SAMPLE 003 3 rd Migration	
2-naphthylamine-Trial 2	ND	ND	ND	<0.002
2-naphthylamine-Trial 3	ND	ND	ND	<0.002
o-aminoazotoluene-Trial 1	ND	ND	ND	<0.002
o-aminoazotoluene-Trial 2	ND	ND	ND	<0.002
o-aminoazotoluene-Trial 3	ND	ND	ND	<0.002
5-nitro-o-toluidine-Trial 1	ND	ND	ND	<0.002
5-nitro-o-toluidine-Trial 2	ND	ND	ND	<0.002
5-nitro-o-toluidine-Trial 3	ND	ND	ND	<0.002
3,3'-dichlorobenzidine-Trial 1	ND	ND	ND	<0.002
3,3'-dichlorobenzidine-Trial 2	ND	ND	ND	<0.002
3,3'-dichlorobenzidine-Trial 3	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine-Trial 1	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine-Trial 2	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine-Trial 3	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)-Trial 1	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)-Trial 2	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)-Trial 3	ND	ND	ND	<0.002
4,4'-thiodianiline-Trial 1	ND	ND	ND	<0.002
4,4'-thiodianiline-Trial 2	ND	ND	ND	<0.002
4,4'-thiodianiline-Trial 3	ND	ND	ND	<0.002
4-amino azobenzene-Trial 1	ND	ND	ND	<0.002
4-amino azobenzene-Trial 2	ND	ND	ND	<0.002
4-amino azobenzene-Trial 3	ND	ND	ND	<0.002
Conclusion:	Pass	Pass	Pass	--

Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

3. "mg/kg" denotes milligram per kilogram

4. "ND" denotes below the Reporting Limit

5. The specification was quoted from Regulation (EU) No. 284/2011 and Regulation (EU) No. 2020/1245

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Test Report No.: 68.431.22.5110.01R1

Dated: 2023-01-06

3.2 Specific Migration of PAAs

Test method: with reference to EN 13130-1:2004, follow by Liquid chromatography tandem mass spectrometer (LC-MS/MS). [Reporting Limit:0.002 mg/kg]

Test Conditions: 3% Acetic Acid: 100 °C for 2 Hours

TEST ITEM	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
	SAMPLE 004 1 st Migration	SAMPLE 004 2 nd Migration	SAMPLE 004 3 rd Migration	
4-Aminobiphenyl (4-ABP)-Trial 1	ND	ND	ND	<0.002
4-Aminobiphenyl (4-ABP)-Trial 2	ND	ND	ND	<0.002
4-Aminobiphenyl (4-ABP)-Trial 3	ND	ND	ND	<0.002
Aniline (ANL)-Trial 1	ND	ND	ND	<0.002
Aniline (ANL)-Trial 2	ND	ND	ND	<0.002
Aniline (ANL)-Trial 3	ND	ND	ND	<0.002
o-Anisidine (o-ASD)-Trial 1	ND	ND	ND	<0.002
o-Anisidine (o-ASD)-Trial 2	ND	ND	ND	<0.002
o-Anisidine (o-ASD)-Trial 3	ND	ND	ND	<0.002
Benzidine (BNZ)-Trial 1	ND	ND	ND	<0.002
Benzidine (BNZ)-Trial 2	ND	ND	ND	<0.002
Benzidine (BNZ)-Trial 3	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)-Trial 1	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)-Trial 2	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)-Trial 3	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)-Trial 1	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)-Trial 2	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)-Trial 3	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)-Trial 1	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)-Trial 2	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)-Trial 3	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)-Trial 1	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)-Trial 2	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)-Trial 3	ND	ND	ND	<0.002
4,4'-Methylenedianiline (4,4'-MDA)-Trial 1	ND	ND	ND	<0.002
4,4'-Methylenedianiline (4,4'-MDA)-Trial 2	ND	ND	ND	<0.002
4,4'-Methylenedianiline (4,4'-MDA)-Trial 3	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)-Trial 1	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)-Trial 2	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)-Trial 3	ND	ND	ND	<0.002
2-Methoxy-5-Methylaniline (2-M-5-MA)-Trial	ND	ND	ND	<0.002

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TEST ITEM	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
	SAMPLE 004 1 st Migration	SAMPLE 004 2 nd Migration	SAMPLE 004 3 rd Migration	
1				
2-Methoxy-5-Methylaniline (2-M-5-MA)-Trial 2	ND	ND	ND	<0.002
2-Methoxy-5-Methylaniline (2-M-5-MA)-Trial 3	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)-Trial 1	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)-Trial 2	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)-Trial 3	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)-Trial 1	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)-Trial 2	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)-Trial 3	ND	ND	ND	<0.002
o-Toluidine (o-T)-Trial 1	ND	ND	ND	<0.002
o-Toluidine (o-T)-Trial 2	ND	ND	ND	<0.002
o-Toluidine (o-T)-Trial 3	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)-Trial 1	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)-Trial 2	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)-Trial 3	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)-Trial 1	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)-Trial 2	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)-Trial 3	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)-Trial 1	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)-Trial 2	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)-Trial 3	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)-Trial 1	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)-Trial 2	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)-Trial 3	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)-Trial 1	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)-Trial 2	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)-Trial 3	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)-Trial 1	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)-Trial 2	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)-Trial 3	ND	ND	ND	<0.002
1,5-Diaminenaphthalene (1,5-DAN)-Trial 1	ND	ND	ND	<0.002
1,5-Diaminenaphthalene (1,5-DAN)-Trial 2	ND	ND	ND	<0.002
1,5-Diaminenaphthalene (1,5-DAN)-Trial 3	ND	ND	ND	<0.002
2-naphthylamine-Trial 1	ND	ND	ND	<0.002

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TEST ITEM	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
	SAMPLE 004 1 st Migration	SAMPLE 004 2 nd Migration	SAMPLE 004 3 rd Migration	
2-naphthylamine-Trial 2	ND	ND	ND	<0.002
2-naphthylamine-Trial 3	ND	ND	ND	<0.002
o-aminoazotoluene-Trial 1	ND	ND	ND	<0.002
o-aminoazotoluene-Trial 2	ND	ND	ND	<0.002
o-aminoazotoluene-Trial 3	ND	ND	ND	<0.002
5-nitro-o-toluidine-Trial 1	ND	ND	ND	<0.002
5-nitro-o-toluidine-Trial 2	ND	ND	ND	<0.002
5-nitro-o-toluidine-Trial 3	ND	ND	ND	<0.002
3,3'-dichlorobenzidine-Trial 1	ND	ND	ND	<0.002
3,3'-dichlorobenzidine-Trial 2	ND	ND	ND	<0.002
3,3'-dichlorobenzidine-Trial 3	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine-Trial 1	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine-Trial 2	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine-Trial 3	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)-Trial 1	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)-Trial 2	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)-Trial 3	ND	ND	ND	<0.002
4,4'-thiodianiline-Trial 1	ND	ND	ND	<0.002
4,4'-thiodianiline-Trial 2	ND	ND	ND	<0.002
4,4'-thiodianiline-Trial 3	ND	ND	ND	<0.002
4-amino azobenzene-Trial 1	ND	ND	ND	<0.002
4-amino azobenzene-Trial 2	ND	ND	ND	<0.002
4-amino azobenzene-Trial 3	ND	ND	ND	<0.002
Conclusion:	Pass	Pass	Pass	--

Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

3. "mg/kg" denotes milligram per kilogram

4. "ND" denotes below the Reporting Limit

5. The specification was quoted from Regulation (EU) No. 284/2011 and Regulation (EU) No. 2020/1245

-- END OF TEST REPORT--

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