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R&D Screen and Pad Printing Inks
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Report

2021L17041 / 1

Date of report 30. July 2021 / 19:47
Invoice reference -
Type of order General tests
Client Marabu GmbH & Co. KG, Mr. Alexander Suckfüll
Sender Marabu GmbH & Co. KG
Copy to Marabu GmbH & Co. KG, Geert Schulte
Invoice to Marabu Nederland B.V.

Report	Sample
2021L17041 / 1	Eurobottle biobased LDPE Drinking Bottle printed with MARABU UVFP (Skyline of the Netherlands)

Amount 12 pcs
Packing aluminium foil
Received on 01/06/2021

This report replaces all former versions.(*)

Assessment

Based on the assumed surface-to-volume ratio, the results of the analytics as described are in compliance with:
- Commission Regulation (EU) No 10/2011
- Swiss Regulation on Food Contact Materials [CH / EU]

The results of the sensory analysis are in compliance with:
- Regulation (EC) 1935/2004, article 3 section 1 paragraph c
- Swiss Regulation on Food Contact Materials, article 2 section a

References

CH BedGeg VO SR 817.023.21: Swiss Regulation on Food Contact Materials of 16.12.2016, updated 01.12.2020
CH BedGeg VO - A SR 817.023.21: Swiss Regulation on Food Contact Materials of 16.12.2016, updated 01.12.2020 - Annex 2,9,10: Part A, evaluated substances
EC 1907/2006 EC 1907/2006: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
EU 10/2011 Commission Regulation (EU) No 10/2011 of 14.01.2011, as amended by No 321/2011 (01.04.2011), No 1282/2011 (28.11.2011), No 1183/2012 (30.11.2012), No 202/2014 (03.03.2014), No 865/2014 (08.08.2014), No 2015/174 (05.02.2015), No 2016/1416 (24.08.2016), No 2017/752 (28.04.2017), No 2018/79 (18.01.2018), No 2018/213 (12.02.2018), No 2018/831 (05.06.2018), No 2019/37 (10.01.2019), No 2019/988 (17.06.2019), No 2019/1338 (08.08.2019) and No 2020/1245 (02.09.2020)
EU 1935/2004 Regulation (EC) No 1935/2004 of 27.10.2004

LOD: limit of detection
LOQ: limit of quantification

na: not in the accredited range

nd: not detectable

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Basis of Analysis

EN 1186

EN 1186: Materials and articles in contact with foodstuffs - Plastics, May 2002

Additional Information

[CH / EU]

For the European Union, regulations from individual EU countries, the DNEL from ECHA, or the TTC concept can be used when the substance has not been evaluated. Substances on Part B of the Swiss Regulation have not been evaluated by the Swiss Authorities and should not migrate >10 µg/kg food. Assuming that the substances are non-intentionally added, according to SR 817.023.21 article 11, paragraph 3, their risk can be assessed analogous to the EU requirements.

[ECHA (DNEL)]

Derived from the no-effect-level value of a toxicological oral long-term study of the European Chemical Agency. According to EFSA (Note for guidance: for the preparation of an application for the safety assessment of a substance to be used in plastic food contact materials, 2017), the limit cannot be set higher than 5 mg/kg food if no full toxicological data set is available.

Chemical Analysis

EU - Migration

The analysis was set-up according to EU Regulations and customer instructions.
The sample material was exposed to the simulants as follows:

Migration preparation:

- filling

Overall Migration:

- simulant B: 3 % acetic acid, 3 x 24 h / 40 °C (*)

- simulant D1: 50 % ethanol, 3 x 24 h / 40 °C (*)

Specific Migration:

- simulant B: 3 % acetic acid, 3 x 24 h / 40 °C (*)

- simulant D1: 50 % ethanol, 3 x 24 h / 40 °C (*)

(*) Repeated use:

The migration was performed three times using the identical specimen.

Results were only generated after the third migration step.

Specifically analysed Parameters

The following parameters were analysed:

- CAS 79-10-7, Acrylic acid
- CAS 79-10-7, Acrylic acid after cleavage
- CAS 79-41-4, Methacrylic acid
- CAS 79-41-4, Methacrylic acid after cleavage
- CAS 80-62-6, Methylmethacrylate via methacrylic acid (CAS 79-41-4)
- CAS 97-88-1, Butylmethacrylate via methacrylic acid (CAS 79-41-4)
- elements (screening ICP-MS) incl.
- elements (EU 10/2011, annex II of amendment 2020/1245)
- CAS 107-98-2, 1-Methoxy-2-propanol
- CAS 1569-02-4, 1-Ethoxy-2-propanol
- CAS 106-89-8, Epichlorohydrin
- CAS 111-76-2, Butyl glycol
- CAS 112-07-2, Butylglycolacetat
- CAS 34590-94-8, Di(propylene glycol) methyl ether
- CAS 104-76-7, 2-Ethyl-1-hexanol
- CAS 57-55-6, Propylene glycol (1,2-Propandiol)
- CAS 107-21-1, Ethylene glycol (EG)
- CAS 98-00-0, Furfuryl alcohol
- CAS 29911-28-2, Di(propylene glycol) butyl ether
- CAS 504-63-2, 1,3-Propanediol

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- CAS 112-34-5, Diethylene glycol butyl ether
- CAS 126-30-7, Neopentyl glycol
- CAS 2163-42-0, 2-Methyl-1,3-propandiol
- CAS 100-51-6, benzyl alcohol
- CAS 25265-71-8, Dipropylene glycol
- CAS 576-26-1, 2,6-Dimethylphenol
- CAS 110-63-4, 1,4-Butanediol
- CAS 111-46-6, Diethylene glycol (DEG)
- CAS 108-95-2, Phenol
- CAS 629-11-8, 1,6-Hexanediol
- CAS 122-99-6, Phenyl glycol
- CAS 2425-77-6, 2-Hexyldecanol
- CAS 98-54-4, 4-tert-butylphenol
- CAS 70445-33-9, 3-[2-(ethylhexyl)oxyl]-1,2-propanediol
- CAS 77-99-6, 1,1,1-Trimethylolpropane
- investigation programme of acrylates
- investigation programme of photoinitiators
- investigation programme of primary aromatic amines

GC-QTOF-MS/FID Screening

Using the GC-QTOF-MS/FID screening method (PTV injection, DB-5 column and electron impact ionization), all relevant substances were compared with the NIST library and our internal library. The concentrations were calculated via the average of the added internal standards IS 1: heptadecane (CAS 629-78-7), IS 3: benzylbutyl phthalate-D4 (CAS 93951-88-3), IS 4: di-n-nonyl phthalate-3,4,5,6-D4 (CAS 1202865-43-7).

Sensory Evaluation: Off-Flavour of a Test Food by Multi-Comparison Test (Simple Sensory Evaluation)

The sample material was exposed to the test food. The ratio was 1 dm² with 100 g test food. The test food was in direct contact with the sample material.

The following side was facing the test food:

- filling

The test food was:

- water

Storage was performed in a closed glass container under the following conditions:

- 24 h / 40°C (according to customer)

As a blank, the same test food was stored in the same way, but without sample material.

The sensory test was done with 6 testers.

Each tester received one portion each of sample and blank. The testers knew which one was the sample and which was the blank.

The test was carried out as simple comparison test between sample and blank.

Both odour and taste of the test food were evaluated.

The analysis was performed according to:

- DIN 10955:2004-06; Sensory evaluation (Sensorische Prüfung - Prüfung von Packstoffen und Packmitteln für Lebensmittel), June 2004
- ISO 13302:2003; Sensory analysis - Methods for assessing modifications to the flavour of foodstuffs due to packaging
- EN 1230-2:2010-02; Paper and board intended to come into contact with foodstuffs - Sensory analysis - Part 2: Off-flavour (taint)
- Swiss Book of Foodstuffs (Schweizerisches Lebensmittelbuch, SLMB), edition 2005, Chap. 47 and 63

Basis of Calculation

The conversion of the measured values to foodstuff is based on the following surface-to-volume ratio (S/V). For any other S/V the resulting migration values are different which might lead to another general assessment of the sample.

Standard S/V: 6 dm² / 1 kg food (EU cube)

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Results

EU - Overall Migration

The limits are 10 mg/dm² and 60 mg/kg food according to Regulation (EU) No 10/2011 and the Swiss Regulation on Food Contact Materials. The following deviations are tolerated:

For all simulants except D2: 10 ± 2 mg/dm² and 60 ± 12 mg/kg food

For simulant D2: 10 ± 3 mg/dm² and 60 ± 20 mg/kg food

The overall migration values obtained with the tested simulants are below the limit.

Specifically analysed Parameters

None of the specifically analysed substances were detectable above the respective specific migration limits.

GC-QTOF-MS/FID Screening

50 % ethanol					
RRT	Substance	CAS No.	Conc. [mg/dm ²]	Standard S/V [mg/kg food]	SML [mg/kg food]
	limit of quantification		0.0017	0.010	
-----	after subtracting the analysis blank		n.d.	n.d.	
internal standards					
0.62	IS 1: heptadecane	629-78-7			
1.00	IS 3: benzylbutyl phthalate-D4	93951-88-3			
1.38	IS 4: di-n-nonyl phthalate-3,4,5,6-D4	1202865-43-7			
RRT	relative retention time				

[n.d.] not detectable

Sensory Evaluation: Off-Flavour of a Test Food by Multi-Comparison Test (Simple Sensory Evaluation)

The sample influenced the test food as follows:

Parameter	Result (rounded up)	Description (if Result ≥2)
Odour:	0	not perceptible
Taste:	1	just perceptible

The grading of the odour or taste difference is based on a scale from 0 to 4. Values > 2 are considered as deviant.
0 - not perceptible | 1 - just perceptible | 2 - moderate | 3 - distinct | 4 - strong

The sensory evaluation was carried out in June 2021 in Dietikon (ZH), Switzerland.

Migration / Extraction				
Parameter Method (location)	Result	Units	value/ Legal Basis of assessment	
3 x 24 h / 40 °C				
Migrate 3 % acetic acid MIGMET003 (Dietikon)	done			
Overall migration 3 % acetic acid LMPMET0705 Gravimetry (Dietikon)	<1	mg/dm ²	10 limit (EU 10/2011) 10 limit (CH BedGeg VO)	LOQ: 1
Overall migration 3 % acetic acid LMPMET0705 Gravimetry (Dietikon)	<6	mg/kg food	60 limit (EU 10/2011) 60 limit (CH BedGeg VO)	LOQ: 6
Migrate 50 % ethanol MIGMET003 (Dietikon)	done			
Overall migration 50 % ethanol LMPMET0705 Gravimetry (Dietikon)	<1	mg/dm ²	10 limit (EU 10/2011) 10 limit (CH BedGeg VO)	LOQ: 1
Overall migration 50 % ethanol LMPMET0705 Gravimetry (Dietikon)	<6	mg/kg food	60 limit (EU 10/2011) 60 limit (CH BedGeg VO)	LOQ: 6

Specific substances				
Parameter Method (location)	Result	Units	value/ Legal Basis of assessment	
3 % acetic acid				
Screening ICP-MS LMPMET091 ICP-MS (Dietikon)	done			
aluminium CAS 7429-90-5 LMPMET091 ICP-MS (Dietikon)	not detected	mg/dm ²		LOQ: 0.0030 LOD: 0.0010
aluminium CAS 7429-90-5 LMPMET091 ICP-MS (Dietikon)	not detected	mg/kg food	1.0 limit (EU 10/2011) 1.0 limit (CH BedGeg VO)	LOQ: 0.018 LOD: 0.0060
Antimony CAS 7440-36-0 LMPMET091 ICP-MS (Dietikon)	not detected	mg/dm ²		LOQ: 0.0030 LOD: 0.0010
Antimony CAS 7440-36-0 LMPMET091 ICP-MS (Dietikon)	not detected	mg/kg food	0.040 limit (EU 10/2011) 0.040 limit (CH BedGeg VO)	LOQ: 0.018 LOD: 0.0060
Arsenic CAS 7440-38-2 LMPMET091 ICP-MS (Dietikon)	not detected	mg/dm ²		LOQ: 0.0030 LOD: 0.0010
Arsenic CAS 7440-38-2 LMPMET091 ICP-MS (Dietikon)	not detected	mg/kg food	nd limit (EU 10/2011)	LOQ: 0.018 LOD: 0.0060
Barium CAS 7440-39-3 LMPMET091 ICP-MS (Dietikon)	not detected	mg/dm ²		LOQ: 0.0030 LOD: 0.0010
Barium CAS 7440-39-3 LMPMET091 ICP-MS (Dietikon)	not detected	mg/kg food	1.0 limit (EU 10/2011) 1.0 limit (CH BedGeg VO)	LOQ: 0.018 LOD: 0.0060
Lead CAS 7439-92-1 LMPMET091 ICP-MS (Dietikon)	not detected	mg/dm ²		LOQ: 0.0030 LOD: 0.0010
Lead CAS 7439-92-1 LMPMET091 ICP-MS (Dietikon)	not detected	mg/kg food	nd limit (EU 10/2011)	LOQ: 0.018 LOD: 0.0060
Cadmium CAS 7440-43-9 LMPMET091 ICP-MS (Dietikon)	not detected	mg/dm ²		LOQ: 0.00030 LOD: 0.00010
Cadmium CAS 7440-43-9 LMPMET091 ICP-MS (Dietikon)	not detected	mg/kg food	0.0020 limit (EU 10/2011)	LOQ: 0.0018 LOD: 0.00060

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Specific substances			
Parameter <i>Method (location)</i>	Result	Units	value/ Legal Basis of assessment
3 % acetic acid			
Calcium CAS 7440-70-2 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.30 LOD: 0.10
Calcium CAS 7440-70-2 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/kg food	60 limit (EU 10/2011) 60 limit (CH BedGeg VO) LOQ: 1.8 LOD: 0.60
Chromium CAS 7440-47-3 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.0030 LOD: 0.0010
Chromium CAS 7440-47-3 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/kg food	3.6 limit (EU 10/2011) LOQ: 0.018 LOD: 0.0060
Cobalt CAS 7440-48-4 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.0030 LOD: 0.0010
Cobalt CAS 7440-48-4 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/kg food	0.020 limit (EU 10/2011) 0.050 limit (CH BedGeg VO) LOQ: 0.018 LOD: 0.0060
Iron CAS 7439-89-6 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.0030 LOD: 0.0010
Iron CAS 7439-89-6 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/kg food	48 limit (EU 10/2011) 48 limit (CH BedGeg VO) LOQ: 0.018 LOD: 0.0060
Europium CAS 7440-53-1 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.00034 LOD: 0.00017
Europium CAS 7440-53-1 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/kg food	0.050 limit (EU 10/2011) LOQ: 0.0020 LOD: 0.0010
Gadolinium CAS 7440-54-2 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.00034 LOD: 0.00017
Gadolinium CAS 7440-54-2 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/kg food	0.050 limit (EU 10/2011) LOQ: 0.0020 LOD: 0.0010
Potassium CAS 7440-09-7 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.0030 LOD: 0.0010
Potassium CAS 7440-09-7 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/kg food	60 limit (EU 10/2011) 60 limit (CH BedGeg VO) LOQ: 0.018 LOD: 0.0060
Copper CAS 7440-50-8 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.0030 LOD: 0.0010
Copper CAS 7440-50-8 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/kg food	5.0 limit (EU 10/2011) 5.0 limit (CH BedGeg VO) LOQ: 0.018 LOD: 0.0060
Lanthanum CAS 7439-91-0 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.00034 LOD: 0.00017
Lanthanum CAS 7439-91-0 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/kg food	0.050 limit (EU 10/2011) LOQ: 0.0020 LOD: 0.0010
Lithium CAS 7439-93-2 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.0030 LOD: 0.0010

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Specific substances						
Parameter <i>Method (location)</i>	Result	Units	value/ Legal Basis of assessment			
3 % acetic acid						
lithium CAS 7439-93-2 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/kg food	0.60	limit (EU 10/2011)		LOQ: 0.018
			0.60	limit (CH BedGeg VO)		LOD: 0.0060
Magnesium CAS 7439-95-4 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/dm ²				LOQ: 0.0030 LOD: 0.0010
Magnesium CAS 7439-95-4 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/kg food	60	limit (EU 10/2011)		LOQ: 0.018
			60	limit (CH BedGeg VO)		LOD: 0.0060
Manganese CAS 7439-96-5 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/dm ²				LOQ: 0.0030 LOD: 0.0010
Manganese CAS 7439-96-5 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/kg food	0.60	limit (EU 10/2011)		LOQ: 0.018
			0.60	limit (CH BedGeg VO)		LOD: 0.0060
Sodium CAS 7440-23-5 <i>LMPMET091 ICP-MS (Dietikon)</i>	0.0067	mg/dm ²				LOQ: 0.0030 LOD: 0.0010
Sodium CAS 7440-23-5 <i>LMPMET091 ICP-MS (Dietikon)</i>	0.040	mg/kg food	60	limit (EU 10/2011)		LOQ: 0.018
			60	limit (CH BedGeg VO)		LOD: 0.0060
Nickel CAS 7440-02-0 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/dm ²				LOQ: 0.0030 LOD: 0.0010
Nickel CAS 7440-02-0 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/kg food	0.020	limit (EU 10/2011)		LOQ: 0.018 LOD: 0.0060
Mercury CAS 7439-97-6 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/dm ²				LOQ: 0.0030 LOD: 0.0010
Mercury CAS 7439-97-6 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/kg food	nd	limit (EU 10/2011)		LOQ: 0.018 LOD: 0.0060
Terbium CAS 7440-27-9 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/dm ²				LOQ: 0.00034 LOD: 0.00017
Terbium CAS 7440-27-9 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/kg food	0.050	limit (EU 10/2011)		LOQ: 0.0020 LOD: 0.0010
Zinc CAS 7440-66-6 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/dm ²				LOQ: 0.0030 LOD: 0.0010
Zinc CAS 7440-66-6 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/kg food	5.0	limit (EU 10/2011)		LOQ: 0.018
			5.0	limit (CH BedGeg VO)		LOD: 0.0060
Chrom (VI); (via Cr-tot.) CAS 7440-47-3 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/dm ²				LOQ: 0.0030 LOD: 0.0010
Chrom (VI); (via Cr-tot.) CAS 7440-47-3 <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/kg food	0.010	limit (EU 10/2011)		LOQ: 0.018 LOD: 0.0060
Sum La/Eu/Gd/Tb <i>LMPMET091 ICP-MS (Dietikon)</i>	not detected	mg/kg food	0.050	limit (EU 10/2011)		LOQ: 0.0080 LOD: 0.0040
primary aromatic amines program (REACH / EU 10/2011) <i>FCMMET08PAA LC-HRMS (Dietikon)</i>	done					

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Specific substances			
Parameter Method (location)	Result	Units	value/ Legal Basis of assessment
3 % acetic acid			
4,4'-methylenebis(2-chloroaniline) CAS 101-14-4 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/dm ²	LOQ: 0.20 LOD: 0.10
4,4'-methylenebis(2-chloroaniline) CAS 101-14-4 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/kg food	2 limit (EU 10/2011) 2 limit (EC 1907/2006) LOQ: 1.2 LOD: 0.60
4,4'-methylenedianiline (4,4'-MDA) CAS 101-77-9 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/dm ²	LOQ: 0.20 LOD: 0.10
4,4'-methylenedianiline (4,4'-MDA) CAS 101-77-9 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/kg food	2 limit (EU 10/2011) 2 limit (EC 1907/2006) LOQ: 1.2 LOD: 0.60
4,4'-oxydianiline CAS 101-80-4 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/dm ²	LOQ: 0.20 LOD: 0.10
4,4'-oxydianiline CAS 101-80-4 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/kg food	2 limit (EU 10/2011) 2 limit (EC 1907/2006) LOQ: 1.2 LOD: 0.60
4-chloroaniline CAS 106-47-8 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/dm ²	LOQ: 0.20 LOD: 0.10
4-chloroaniline CAS 106-47-8 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/kg food	2 limit (EU 10/2011) 2 limit (EC 1907/2006) LOQ: 1.2 LOD: 0.60
3,3'-dimethoxybenzidine CAS 119-90-4 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/dm ²	LOQ: 0.20 LOD: 0.10
3,3'-dimethoxybenzidine CAS 119-90-4 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/kg food	2 limit (EU 10/2011) 2 limit (EC 1907/2006) LOQ: 1.2 LOD: 0.60
3,3'-dimethylbenzidine CAS 119-93-7 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/dm ²	LOQ: 0.20 LOD: 0.10
3,3'-dimethylbenzidine CAS 119-93-7 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/kg food	2 limit (EU 10/2011) 2 limit (EC 1907/2006) LOQ: 1.2 LOD: 0.60
p-cresidine CAS 120-71-8 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/dm ²	LOQ: 0.20 LOD: 0.10
p-cresidine CAS 120-71-8 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/kg food	2 limit (EU 10/2011) 2 limit (EC 1907/2006) LOQ: 1.2 LOD: 0.60
2,4,5-trimethylaniline CAS 137-17-7 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/dm ²	LOQ: 0.20 LOD: 0.10
2,4,5-trimethylaniline CAS 137-17-7 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/kg food	2 limit (EU 10/2011) 2 limit (EC 1907/2006) LOQ: 1.2 LOD: 0.60
4,4'-thiodianiline CAS 139-65-1 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/dm ²	LOQ: 0.20 LOD: 0.10
4,4'-thiodianiline CAS 139-65-1 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/kg food	2 limit (EU 10/2011) 2 limit (EC 1907/2006) LOQ: 1.2 LOD: 0.60

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3 % acetic acid			
4-aminoazobenzene CAS 60-09-3 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/dm ²	LOQ: 0.20 LOD: 0.10
4-aminoazobenzene CAS 60-09-3 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/kg food	2 limit (EU 10/2011) 2 limit (EC 1907/2006) LOQ: 1.2 LOD: 0.60
2,4-diaminoanisole CAS 615-05-4 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/dm ²	LOQ: 0.20 LOD: 0.10
2,4-diaminoanisole CAS 615-05-4 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/kg food	2 limit (EU 10/2011) 2 limit (EC 1907/2006) LOQ: 1.2 LOD: 0.60
4,4'-methylenedi-o-toluidine CAS 838-88-0 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/dm ²	LOQ: 0.20 LOD: 0.10
4,4'-methylenedi-o-toluidine CAS 838-88-0 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/kg food	2 limit (EU 10/2011) 2 limit (EC 1907/2006) LOQ: 1.2 LOD: 0.60
o-anisidine CAS 90-04-0 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/dm ²	LOQ: 0.20 LOD: 0.10
o-anisidine CAS 90-04-0 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/kg food	2 limit (EU 10/2011) 2 limit (EC 1907/2006) LOQ: 1.2 LOD: 0.60
2-naphthylamine CAS 91-59-8 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/dm ²	LOQ: 0.20 LOD: 0.10
2-naphthylamine CAS 91-59-8 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/kg food	2 limit (EU 10/2011) 2 limit (EC 1907/2006) LOQ: 1.2 LOD: 0.60
3,3'-dichlorobenzidine CAS 91-94-1 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/dm ²	LOQ: 0.20 LOD: 0.10
3,3'-dichlorobenzidine CAS 91-94-1 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/kg food	2 limit (EU 10/2011) 2 limit (EC 1907/2006) LOQ: 1.2 LOD: 0.60
4-aminobiphenyl CAS 92-67-1 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/dm ²	LOQ: 0.20 LOD: 0.10
4-aminobiphenyl CAS 92-67-1 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/kg food	2 limit (EU 10/2011) 2 limit (EC 1907/2006) LOQ: 1.2 LOD: 0.60
benzidine CAS 92-87-5 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/dm ²	LOQ: 0.20 LOD: 0.10
benzidine CAS 92-87-5 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/kg food	2 limit (EU 10/2011) 2 limit (EC 1907/2006) LOQ: 1.2 LOD: 0.60
o-toluidine CAS 95-53-4 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/dm ²	LOQ: 0.20 LOD: 0.10
o-toluidine CAS 95-53-4 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/kg food	2 limit (EU 10/2011) 2 limit (EC 1907/2006) LOQ: 1.2 LOD: 0.60
4-chloro-o-toluidine CAS 95-69-2 FCMMET08PAA LC-HRMS (Dietikon)	not detected	µg/dm ²	LOQ: 0.20 LOD: 0.10

LOD: limit of detection
LOQ: limit of quantification

na: not in the accredited range

nd: not detectable

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Specific substances				
Parameter <i>Method (location)</i>	Result	Units	value/ Legal Basis of assessment	
3 % acetic acid				
4-chloro-o-toluidine CAS 95-69-2 <i>FCMMET08PAA LC-HRMS (Dietikon)</i>	not detected	µg/kg food	2 limit (EU 10/2011) 2 limit (EC 1907/2006)	LOQ: 1.2 LOD: 0.60
2,4-diaminotoluene CAS 95-80-7 <i>FCMMET08PAA LC-HRMS (Dietikon)</i>	not detected	µg/dm ²		LOQ: 0.20 LOD: 0.10
2,4-diaminotoluene CAS 95-80-7 <i>FCMMET08PAA LC-HRMS (Dietikon)</i>	not detected	µg/kg food	2 limit (EU 10/2011) 2 limit (EC 1907/2006)	LOQ: 1.2 LOD: 0.60
o-aminoazotoluene CAS 97-56-3 <i>FCMMET08PAA LC-HRMS (Dietikon)</i>	not detected	µg/dm ²		LOQ: 0.20 LOD: 0.10
o-aminoazotoluene CAS 97-56-3 <i>FCMMET08PAA LC-HRMS (Dietikon)</i>	not detected	µg/kg food	2 limit (EU 10/2011) 2 limit (EC 1907/2006)	LOQ: 1.2 LOD: 0.60
5-nitro-o-toluidine CAS 99-55-8 <i>FCMMET08PAA LC-HRMS (Dietikon)</i>	not detected	µg/dm ²		LOQ: 0.20 LOD: 0.10
5-nitro-o-toluidine CAS 99-55-8 <i>FCMMET08PAA LC-HRMS (Dietikon)</i>	not detected	µg/kg food	2 limit (EU 10/2011) 2 limit (EC 1907/2006)	LOQ: 1.2 LOD: 0.60
50 % ethanol				
Acrylic acid CAS 79-10-7 <i>LCAMET101 LC-UV (Dietikon)</i>	not detected	mg/dm ²		LOQ: 0.10 LOD: 0.05
Acrylic acid CAS 79-10-7 <i>LCAMET101 LC-UV (Dietikon)</i>	not detected	mg/kg food	6.0 limit (EU 10/2011) 6.0 limit (CH BedGeg VO - A)	LOQ: 0.60 LOD: 0.3
Acrylic acid after cleavage CAS 79-10-7 <i>LCAMET101 LC-UV (Dietikon)</i>	not detected	mg/dm ²		LOQ: 0.10 LOD: 0.05
Acrylic acid after cleavage CAS 79-10-7 <i>LCAMET101 LC-UV (Dietikon)</i>	not detected	mg/kg food		LOQ: 0.60 LOD: 0.3
Methacrylic acid CAS 79-41-4 <i>LCAMET101 LC-UV (Dietikon)</i>	not detected	mg/dm ²		LOQ: 0.10 LOD: 0.05
Methacrylic acid CAS 79-41-4 <i>LCAMET101 LC-UV (Dietikon)</i>	not detected	mg/kg food	6.0 limit (EU 10/2011) 6.0 limit (CH BedGeg VO - A)	LOQ: 0.6 LOD: 0.3
Methacrylic acid after cleavage CAS 79-41-4 <i>LCAMET101 LC-UV (Dietikon)</i>	not detected	mg/dm ²		LOQ: 0.10 LOD: 0.05
Methacrylic acid after cleavage CAS 79-41-4 <i>LCAMET101 LC-UV (Dietikon)</i>	not detected	mg/kg food		LOQ: 0.6 LOD: 0.3
Methylmethacrylate via methacrylic acid (CAS 79-41-4) CAS 80-62-6 <i>LCAMET101 LC-UV (Dietikon)</i>	not detected	mg/kg food	6.0 limit (EU 10/2011)	
Butylmethacrylate via methacrylic acid (CAS 79-41-4) CAS 97-88-1 <i>LCAMET101 LC-UV (Dietikon)</i>	not detected	mg/kg food	6.0 limit (EU 10/2011) 6.0 limit (CH BedGeg VO - A)	
1-Methoxy-2-propanol CAS 107-98-2 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²		LOQ: 0.017 LOD: 0.0085

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LOQ: limit of quantification

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Specific substances			
Parameter <i>Method (location)</i>	Result	Units	value/ Legal Basis of assessment
50 % ethanol			
1-Ethoxy-2-propanol CAS 1569-02-4 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
Epichlorohydrin CAS 106-89-8 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
Butyl glycol CAS 111-76-2 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
Butylglycolacetat CAS 112-07-2 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
Di(propylene glycol) methyl ether CAS 34590-94-8 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
2-Ethyl-1-hexanol CAS 104-76-7 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
Propylene glycol (1,2-Propandiol) CAS 57-55-6 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
Ethylene glycol (EG) CAS 107-21-1 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
Furfuryl alcohol CAS 98-00-0 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
Di(propylene glycol) butyl ether CAS 29911-28-2 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
1,3-Propanediol CAS 504-63-2 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
Diethylene glycol butyl ether CAS 112-34-5 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
Neopentyl glycol CAS 126-30-7 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
2-Methyl-1,3-propanediol CAS 2163-42-0 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
benzyl alcohol CAS 100-51-6 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
Dipropylene glycol CAS 25265-71-8 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
2,6-Dimethylphenol CAS 576-26-1 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
1,4-Butanediol CAS 110-63-4 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
Diethylene glycol (DEG) CAS 111-46-6 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085

LOD: limit of detection na: not in the accredited range nd: not detectable
LOQ: limit of quantification

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Specific substances			
Parameter <i>Method (location)</i>	Result	Units	value/ Legal Basis of assessment
50 % ethanol			
Phenol CAS 108-95-2 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
1,6-Hexanediol CAS 629-11-8 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
Phenyl glycol CAS 122-99-6 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
2-Hexyldecanol CAS 2425-77-6 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
4-tert-butylphenol CAS 98-54-4 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
3-[2-(ethylhexyl)oxyl]-1,2-propa nediol CAS 70445-33-9 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.017 LOD: 0.0085
1,1,1-Trimethylolpropane CAS 77-99-6 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/dm ²	LOQ: 0.17 LOD: 0.085
1-Methoxy-2-propanol CAS 107-98-2 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	5 limit (CH BedGeg VO - A) LOQ: 0.1 LOD: 0.05
1-Ethoxy-2-propanol CAS 1569-02-4 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	5 limit (CH BedGeg VO - A) LOQ: 0.1 LOD: 0.05
Epichlorohydrin CAS 106-89-8 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	0.01 limit (EU 10/2011) 0.01 limit (CH BedGeg VO - A) LOQ: 0.1 LOD: 0.05
Butyl glycol CAS 111-76-2 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	5 limit (CH BedGeg VO - A) LOQ: 0.1 LOD: 0.05
Butylglycolacetat CAS 112-07-2 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	5 limit (CH BedGeg VO - A) LOQ: 0.1 LOD: 0.05
Di(propylene glycol) methyl ether CAS 34590-94-8 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	5 limit (CH BedGeg VO - A) LOQ: 0.1 LOD: 0.05
2-Ethyl-1-hexanol CAS 104-76-7 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	30 limit (EU 10/2011) 30 limit (CH BedGeg VO - A) LOQ: 0.1 LOD: 0.05
Propylene glycol (1,2-Propandiol) CAS 57-55-6 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	60 limit (EU 10/2011) 60 limit (CH BedGeg VO - A) LOQ: 0.1 LOD: 0.05
Ethylene glycol (EG) CAS 107-21-1 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	30 limit (EU 10/2011) 30 limit (CH BedGeg VO - A) LOQ: 0.1 LOD: 0.05
Furfuryl alcohol CAS 98-00-0 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	5 limit (ECHA (DNEL)) LOQ: 0.1 LOD: 0.05
Di(propylene glycol) butyl ether CAS 29911-28-2 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	0.05 limit (CH BedGeg VO - A) LOQ: 0.1 LOD: 0.05

LOD: limit of detection
LOQ: limit of quantification

na: not in the accredited range

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Specific substances						
Parameter <i>Method (location)</i>	Result	Units	value/ Legal Basis of assessment			
50 % ethanol						
1,3-Propanediol CAS 504-63-2 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	0.05	limit (EU 10/2011)		LOQ: 0.1
			0.05	limit (CH BedGeg VO - A)		LOD: 0.05
Diethylene glycol butyl ether CAS 112-34-5 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	5	limit (CH BedGeg VO - A)		LOQ: 0.1 LOD: 0.05
Neopentyl glycol CAS 126-30-7 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	0.05	limit (EU 10/2011)		LOQ: 0.1
			0.05	limit (CH BedGeg VO - A)		LOD: 0.05
2-Methyl-1,3-propandiol CAS 2163-42-0 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	5	limit (CH BedGeg VO - A)		LOQ: 0.1 LOD: 0.05
benzyl alcohol CAS 100-51-6 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	60	limit (EU 10/2011)		LOQ: 0.1
			60	limit (CH BedGeg VO - A)		LOD: 0.05
Dipropylene glycol CAS 25265-71-8 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	60	limit (EU 10/2011)		LOQ: 0.1
			60	limit (CH BedGeg VO - A)		LOD: 0.05
2,6-Dimethylphenol CAS 576-26-1 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	0.05	limit (EU 10/2011)		LOQ: 0.1
			0.05	limit (CH BedGeg VO - A)		LOD: 0.05
1,4-Butanediol CAS 110-63-4 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	5	limit (EU 10/2011)		LOQ: 0.1
			5	limit (CH BedGeg VO - A)		LOD: 0.05
Diethylene glycol (DEG) CAS 111-46-6 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	30	limit (EU 10/2011)		LOQ: 0.1
			30	limit (CH BedGeg VO - A)		LOD: 0.05
Phenol CAS 108-95-2 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	3	limit (EU 10/2011)		LOQ: 0.1
			3	limit (CH BedGeg VO - A)		LOD: 0.05
1,6-Hexanediol CAS 629-11-8 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	0.05	limit (EU 10/2011)		LOQ: 0.1
			0.05	limit (CH BedGeg VO - A)		LOD: 0.05
Phenyl glycol CAS 122-99-6 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	0.01	limit		LOQ: 0.1
			0.01	limit (CH BedGeg VO)		LOD: 0.05
2-Hexyldecanol CAS 2425-77-6 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	0.01	limit		LOQ: 0.1
			0.01	limit (CH BedGeg VO)		LOD: 0.05
4-tert-butylphenol CAS 98-54-4 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	0.05	limit (EU 10/2011)		LOQ: 0.1
			0.05	limit (CH BedGeg VO - A)		LOD: 0.05
3-[2-(ethylhexyl)oxyl]-1,2-propa nediol CAS 70445-33-9 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	0.01	limit		LOQ: 0.1
			0.01	limit (CH BedGeg VO)		LOD: 0.05
1,1,1-Trimethylolpropane CAS 77-99-6 <i>LSPMET17 Glycole (na) GC-MS (Dietikon)</i>	not detected	mg/kg food	6	limit (EU 10/2011)		LOQ: 1
			6	limit (CH BedGeg VO - A)		LOD: 0.5
Screening GC-QTOF-MS/FID <i>FCMMET03SCR GC-QTOF-MS/FID (Dietikon)</i>	done					
photoinitiator programme <i>FCMMET13PI LC-HRMS (Dietikon)</i>	done					
photoinitiator programme <i>FCMMET13PI LC-HRMS (Dietikon)</i>	not detected	µg/dm ²				LOQ: 1.0 LOD: 0.50
photoinitiator programme <i>FCMMET13PI LC-HRMS (Dietikon)</i>	not detected	µg/kg food				LOQ: 6.0 LOD: 3.0

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Specific substances			
Parameter Method (location)	Result	Units	value/ Legal Basis of assessment
50 % ethanol			
acrylate programme FCMMET02ACR LC-QTOF-MS (Dietikon)	done		
acrylate programme FCMMET02ACR LC-QTOF-MS (Dietikon)	not detected	µg/dm ²	LOQ: 1.0 LOD: 0.50
acrylate programme FCMMET02ACR LC-QTOF-MS (Dietikon)	not detected	µg/kg food	LOQ: 6.0 LOD: 3.0

Sensory evaluation	
Parameter Method (location)	Result
24 h / 40°C	
Sensory assessment with water (smell/taste) LMPMET0707 (na) Sensory (Dietikon)	0/1

(¹) Report correction on customer request.
Correction: Sample characteristic
/ Sample characteristic

Report released by: Dr. Thomas Gude, Technical Manager
This report is signed electronically and therefore valid.

Mr Dr. Thomas Gude phone number (direct) +41 58 577 10 80