



TEST REPORT NO 698622/24/SZC

Client LITOLAN LLC Entuzjasts Street, 10E 67832 Velikodolynske		Sample (according to declaration of Client) Sample description: Plastic food containers Material: High density polyethylene HDPE	
Sample reception date:	29.01.2025	Sample status: no objections Sample received from the Client	
Start of analysis	29.01.2025		
End of analysis	10.03.2025		
Test report date	10.03.2025		

Test Method	Food simulant	Test conditions	Unit	Result	Criteria	Statement of conformity
* Sensory analysis - scoring method (6 assessors) ¹⁰⁾ DIN 10955:2024						
Odour	water	10 d/ 40°C	-	1,0	-	-
Flavour	water	10 d/ 40°C	-	1,5	-	-
* Chromium VI content (according to Directive 94/62/EC) ^{2) 8) 11) 13)} PN-EN 71-3:2019+A1:2021						
Chromium VI (Cr VI)	-	-	mg/kg	< 0,005 (0,005 ± 0,001)	-	-
* Content of elements (heavy metals according to Directive 94/62 / EC) ^{2) 8) 11) 13)} PB-233/ICP ed. II of 15.11.2017						
Cadmium (Cd)	-	-	mg/kg	< 0,5 (0,5 ± 0,1)	-	-
Lead (Pb)	-	-	mg/kg	< 2,0 (2,0 ± 0,4)	-	-
Mercury (Hg)	-	-	mg/kg	< 0,5 (0,5 ± 0,1)	-	-
Sum of heavy metals	-	-	mg/kg	below quantification limit	≤ 100	Pass
* Overall migration - food simulant A ^{3) 4) 7) 11)} PN-EN 1186-1:2005	10% EtOH	10d/ 40°C	mg/dm ²	< 0,5 (0,5 ± 0,5) (< 0,5; < 0,5; < 0,5)	≤ 10	Pass
* Overall migration - food simulant B ^{3) 4) 7) 11)} PN-EN 1186-1:2005	3% AA	10d/ 40°C	mg/dm ²	< 0,5 (0,5 ± 0,5) (< 0,5; < 0,5; < 0,5)	≤ 10	Pass
* Overall migration - food simulant D2 ^{4) 3) 7) 11)} PN-EN 1186-1:2005	olive oil	10d/ 40°C	mg/dm ²	< 2,0 (2,0 ± 1,0) (< 2,0; < 2,0; < 2,0)	≤ 10	Pass
Preparation of the simulant to specific migration tests - food simulant A (water) ¹⁾ PN-EN 13130-1:2006	water	10 d/ 60°C	dm ² /ml	0,60/100	-	-
Specific migration - ammonium ion ^{7) 11)} PB-124 ed. I of 15.06.2011	water	10 d/ 60°C	mg/kg	< 0,06 (0,06 ± 0,01)	≤ 60	Pass
Preparation of the simulant to specific migration tests - food simulant B ¹⁾ PN-EN 13130-1:2006	3% AA	10 d/ 60°C	dm ² /ml	0,60/100	-	-
* Specific migration - elements Of Annex II to Commission Regulation (EU) No 10/2011 ^{5) 7) 11) 12)} PB-204 ed. 7 of 20.07.2023						
Lithium (Li)	3% AA	10 d/ 60°C	mg/kg	< 0,005 (0,005 ± 0,001)	≤ 0,6	Pass



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Sodium (Na)	3% AA	10 d/ 60°C	mg/kg	< 0,100 (0,100 ± 0,020)	≤ 60	Pass
Magnesium (Mg)	3% AA	10 d/ 60°C	mg/kg	< 0,050 (0,050 ± 0,010)	≤ 60	Pass
Aluminum (Al)	3% AA	10 d/ 60°C	mg/kg	< 0,050 (0,050 ± 0,010)	≤ 1	Pass
Potassium (K)	3% AA	10 d/ 60°C	mg/kg	< 0,100 (0,100 ± 0,020)	≤ 60	Pass
Calcium (Ca)	3% AA	10 d/ 60°C	mg/kg	0,056 ± 0,011	≤ 60	Pass
Chromium (Cr)	3% AA	10 d/ 60°C	mg/kg	< 0,005 (0,005 ± 0,001)	≤ 0,01	Pass
Manganese (Mn)	3% AA	10 d/ 60°C	mg/kg	< 0,005 (0,005 ± 0,001)	≤ 0,6	Pass
Iron (Fe)	3% AA	10 d/ 60°C	mg/kg	< 0,005 (0,005 ± 0,001)	≤ 48	Pass
Cobalt (Co)	3% AA	10 d/ 60°C	mg/kg	< 0,005 (0,005 ± 0,001)	≤ 0,05	Pass
Nickel (Ni)	3% AA	10 d/ 60°C	mg/kg	< 0,005 (0,005 ± 0,001)	≤ 0,02	Pass
Copper (Cu)	3% AA	10 d/ 60°C	mg/kg	< 0,005 (0,005 ± 0,001)	≤ 5	Pass
Zinc (Zn)	3% AA	10 d/ 60°C	mg/kg	< 0,005 (0,005 ± 0,001)	≤ 5	Pass
Arsenic (As)	3% AA	10 d/ 60°C	mg/kg	< 0,002 (0,0020 ± 0,0004)	≤ 0,01	Pass
Cadmium (Cd)	3% AA	10 d/ 60°C	mg/kg	< 0,002 (0,0020 ± 0,0004)	≤ 0,002	Pass
Antimony (Sb)	3% AA	10 d/ 60°C	mg/kg	< 0,005 (0,005 ± 0,001)	≤ 0,04	Pass
Barium (Ba)	3% AA	10 d/ 60°C	mg/kg	< 0,005 (0,005 ± 0,001)	≤ 1	Pass
Lanthanum (La)	3% AA	10 d/ 60°C	mg/kg	< 0,005 (0,005 ± 0,001)	≤ 0,05	Pass
Europium (Eu)	3% AA	10 d/ 60°C	mg/kg	< 0,005 (0,005 ± 0,001)	≤ 0,05	Pass
Gadolinium (Gd)	3% AA	10 d/ 60°C	mg/kg	< 0,005 (0,005 ± 0,001)	≤ 0,05	Pass
Terbium (Tb)	3% AA	10 d/ 60°C	mg/kg	< 0,005 (0,005 ± 0,001)	≤ 0,05	Pass
Mercury (Hg)	3% AA	10 d/ 60°C	mg/kg	< 0,005 (0,005 ± 0,001)	≤ 0,01	Pass
Lead (Pb)	3% AA	10 d/ 60°C	mg/kg	< 0,005 (0,005 ± 0,001)	≤ 0,01	Pass
Sum of lanthanide - Eu, Gd, La, Tb	3% AA	10 d/ 60°C	mg/kg	below quantification limit	≤ 0,05	Pass

* Specific migration - primary aromatic amines ^{6) 7) 11) 12)}
PB-413 ed. 3 of 17.01.2024

4,4'-Diaminodiphenyl sulfone [CAS: 80-08-0]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 5000	Pass
2-Aminobenzamide, [CAS: 88-68-6]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 50	Pass
1,3-Phenylenediamine, [CAS: 108-45-2]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
4,4'-Methylenebis(3-chloro-2,6-diethylaniline), [CAS 106246-33-7]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 50	Pass
4-Aminodiphenyl, [CAS 92-67-1]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
Benzidine, [CAS 92-87-5]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
4-Chloro-o-toluidine, [CAS 95-69-2]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
2-Naphthylamine, [CAS: 91-59-8]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
o-Aminoazotoluene, [CAS 97-56-3]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
2-Amino-4-nitrotoluene, [CAS: 99-55-8]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
p-Chloroaniline, [CAS 106-47-8]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
2,4-Diaminoanisole, [CAS: 615-05-4]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
4,4'-Diaminodiphenylmethane, [CAS 101-77-9]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
3,3'-Dichlorobenzidine [CAS: 91-94-1]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
3,3'-Dimethoxybenzidine, [CAS 119-90-4]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 2	Pass



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3,3'-Dimethylbenzidine [CAS: 119-93-7]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
4,4'-Diamino-3,3'-dimethyldiphenylmethane, [CAS 838-88-0]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
p-Cresidine, [CAS 120-71-8]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
4,4'-Methylene-bis(2-chloroaniline), [CAS 101-14-4]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
4,4'-Oxydianiline, [CAS 101-80-4]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
4,4'-Thiodianiline, [CAS 139-65-1]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
o-Toluidine, [CAS 95-53-4]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
2,4-Toluenediamine, [CAS: 95-80-7]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
2,4,5-Trimethylaniline, [CAS: 137-17-7]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
o-Anisidine [CAS 90-04-0]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
4-Aminoazobenzene, [CAS 60-09-3]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 2	Pass
Anilin, [CAS: 62-53-3]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 10	Pass
2,4-Dimethylaniline, [CAS 95-68-1]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 10	Pass
2,6- Dimethylaniline, [CAS 87-62-7]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 10	Pass
1,5-Diaminonaphthalene, [CAS 2243-62-1]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 10	Pass
3-Chloroaniline, [CAS: 108-42-9]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 10	Pass
p-Toluidine, [CAS: 106-49-0]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 10	Pass
1,4-Phenylenediamine, [CAS: 106-50-3]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 10	Pass
2,6-Diaminotoluene, [CAS: 823-40-5]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 10	Pass
N,N-Dimethylaniline, [CAS: 121-69-7]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 10	Pass
2,4'-Methylenedianiline, [CAS: 1208-52-2]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 10	Pass
2,5-Dimethoxy-4-chloroaniline, [CAS: 6358-64-1]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 10	Pass
4-Aminobenzamide, [CAS: 2835-68-9]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 10	Pass
4-Aminotoluene-3-sulfonic acid, [CAS: 88-44-8]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 10	Pass
4-Methylaminosulfonyl-p-cresidine, [CAS: 49564-57-0]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 10	Pass
1,2-Phenylenediamine, [CAS: 95-54-5]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 10	Pass
5-Amino-6-methyl-2-benzimidazolone, [CAS: 67014-36-2]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 10	Pass
2,2'-Methylenedianiline, [CAS 6582-52-1]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 10	Pass
2-Methoxy-4-nitroaniline, [CAS 97-52-9]	3% AA	10 d/ 60°C	µg/kg	< 5,0 (5,0 ± 1,8)	≤ 10	Pass
2-Amino-5-chloro-p-toluenesulfonic acid, [CAS 88-53-9]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 10	Pass
2-Amino-1-naphthalenesulfonic acid [CAS: 81-16-3]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 10	Pass
6-Ethoxynaphthalen-2-amine, [CAS 293733-21-8]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 10	Pass
5-Amino-2-methylbenzenesulfonic acid, [CAS 118-88-7]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 10	Pass
4-Amino-3-fluorophenol [CAS: 399-95-1]	3% AA	10 d/ 60°C	µg/kg	< 2,0 (2,0 ± 0,7)	≤ 10	Pass
Sum of primary aromatic amines	3% AA	10 d/ 60°C	µg/kg	below quantification limit	≤ 10	Pass
Preparation of the simulant to specific migration tests - substitute food simulant D2e ¹⁾ PN-EN 13130-1:2006	95% EtOH	10 d/ 60°C	dm ² /ml	0,60/100	-	-



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* # Specific migration - polyethyleneglycol [CAS: 25322-68-3; Ref.: 23590, 76960] ^{9)7) 12)} IZP A-12-104	95% EtOH	10 d/ 60°C	mg/kg	< 0,5	≤ 60	Pass
* LC-QTOF-MS screening of non-intentionally added substances (NIAS) , migration into food simulants PB-502 ed.3 of 30.10.2023	95% EtOH	10 d/ 60°C	mg/kg	Result in Annex No.1	-	-

- 1) PN-EN 13130-1:2006 p.15
- 2) The limit of quantification for Cd and Hg is 0,5 mg/kg, the limit of quantification for Pb is 2,0 mg/kg, The limit of quantification for Cr VI is 0,005 mg/kg.
- 3) Food contact surface area/food simulant volume: 1,00 dm²/100 ml.
- 4) Migration method: total immersion.
- 5) The limit of quantification for each analyte included in the sum is 0,005 mg/kg of food simulant.
- 6) The limit of quantification for each analyte included in the sum is 2,0 µg/kg of food simulant, the limit of quantification for the analyte 2-Methoxy-4-nitroaniline is 5,0 µg/kg of food simulant.
- 7) Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food which is a specific measure within the meaning of Article 5(1) of Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC (OJ L12 of 15.1.2011, as amended).
- 8) Directive 94/62/ EC of 20 December 1994 on packaging and packaging waste, as regards the content of lead, cadmium, mercury and chromium (VI).
- 9) The symbol "<" means below the limit of quantification of the analytical method.
- 10) The scale used for the odour/flavour assessment:
0 - no noticeable deviation of the odour /flavour,
1 - barely noticeable deviation of the odour /flavour (hard to define yet),
2 - weak deviation of the odour /flavour,
3 - significant deviation of the odour /flavour,
4 - strong deviation of the odour /flavour (this intensity does not determine the probable maximum).
- 11) The lower limit of the measuring range of the accredited method, which is also the limit of quantification set by the Laboratory.
- 12) The result was calculated assuming the conventional surface to volume ratio of 6 dm² per 1 kg of food.
- 13) Regulation (EU) 2025/40 of the European Parliament and of the Council of 19 December 2024 on packaging and packaging waste, amending Regulation (EU) 2019/1020 and Directive (EU) 2019/904, and repealing Directive 94/62/EC.

Test: Specific migration - polyethyleneglycol [CAS: 25322-68-3; Ref.: 23590, 76960] was performed in laboratory with an accreditation number L1004

Authorized by:

ID: 437, Analysis Expert, Cooperation with Laboratories Section
ID: 492, Analysis Expert, Sensory Analysis Laboratory
ID: 1037, Analysis Specialist, Non-Food and Packaging Laboratory
ID: 1107, Analysis Expert, Non-Food and Packaging Laboratory
ID: 1243, Analysis Specialist, Environmental Analysis Laboratory
ID: 1409, Senior Analysis Specialist, Non-Food and Packaging Laboratory
ID: 1418, Analysis Specialist, Non-Food and Packaging Laboratory

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Laboratory address:

Chwaszczyńska 180, 81-571 Gdynia

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* Test method accredited

Test performed by external provider



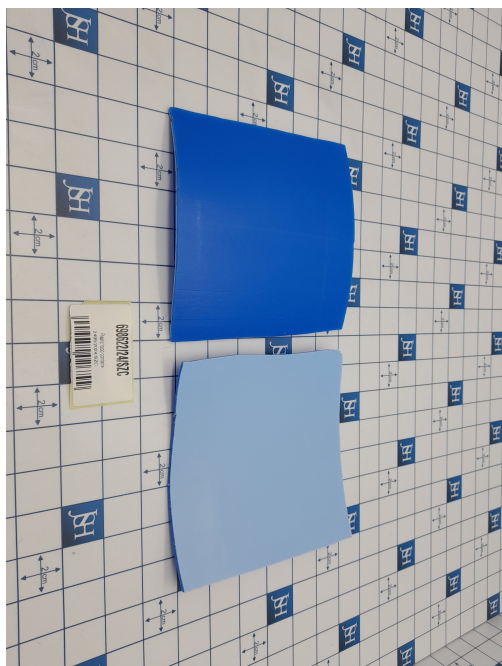
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TEST REPORT NO 698622/24/SZC



THE END OF THE REPORT

ANNEX NO. 1 TO THE TEST REPORT NO. 698622/24/SCZ

Compound Name	Food simulant	Test conditions	Unit	Result	Criteria	Statement of conformity
*LC-QTOF-MS screening of non-intentionally added substances (NIAS), migration into food simulants ¹⁻⁴ PB-502 ed III of 30.10.2023						
OTHP / Octadecyl-m-t-butyl-p-hydroxyphenylpropionate [CAS: 110729-26-5; RT: 29.449 min; $\Delta m/z = -0.2$ ppm; Score = 99.22 %] ⁵	95% EtOH	10 d/ 60°C	mg/kg	0,08 ± 0,08	≤ 1,8	PASS
Irgafos 168 Phosphate [CAS: 95906-11-9; RT: 26.924 min; $\Delta m/z = -0.14$ ppm; Score = 99.78 %] ⁶	95% EtOH	10 d/ 60°C	mg/kg	0,15 ± 0,15	≤ 60	PASS
Dodecanamide [CAS: 1120-16-7; RT: 20.043 min; $\Delta m/z = 0.29$ ppm; Score = 93.46 %] ^{6,7}	95% EtOH	10 d/ 60°C	mg/kg	0,04 ± 0,04	≤ 60	PASS
Terbutryn [CAS: 886-50-0; RT: 16.774 min; $\Delta m/z = -0.43$ ppm; Score = 98.95 %] ⁸	95% EtOH	10 d/ 60°C	mg/kg	0,03 ± 0,03	≤ 0,09	PASS

* Test method accredited

1. According to Article 19 of Regulation (EU) No 10/2011, in case of unevaluated substances a risk assessment should be performed.
2. Migration results expressed in mg/kg applying the conventional S/V ratio of 6 dm² per kg of food.
3. In the applied LC-QTOF-MS screening method (water/methanol gradient with a C18 column, detector in ESI+ mode) all identified substances were compared with the internal database. The quantification of identified substances was performed via the average of the three internal standards. For unidentified substances, an estimated formula is reported. The method is semi-quantitative and cannot be treated as equivalent to specific migration.
4. RT (Retention Time); $\Delta m/z$ (Mass difference between observed and calculated mass, ppm); Score (Reflecting how well the compound matches the mass, isotope pattern and retention time of the target compound); Mass (Mass of the compound, Da).
5. Substance classified as Cramer's class I. (Values calculated with assumption of a daily intake of an adult with weight of 60 kg).

Annex date: 24.02.2025

Authorized by:

ID: 1107, Analysis Expert, Non-Food and Packaging Laboratory

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6. Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food which is a specific measure within the meaning of Article 5(1) of Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC (OJ L12 of 15.1.2011, as amended).
7. Read across approach was applied for criteria as currently no applicable legal basis in a given field of research. The read across is based on structural similarity and available data. In accordance with the Risk Assessment of non-listed substances (NLS) and non-intentionally added substances (NIAS) under Article 19 of Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food.
8. Substance classified as Cramer's class III. (Values calculated with assumption of a daily intake of an adult with weight of 60 kg).

Annex date: 24.02.2025

Authorized by:

ID: 1107, Analysis Expert, Non-Food and Packaging Laboratory

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