

**ANNEX NO. 1 TO THE TEST REPORT NO. 699713/23/POZ**

Compound Name	Food simulant	Test conditions	Unit	Result	Criteria	Statement of conformity
*Screening GC-MS/FID - non-intentionally added substances (NIAS) <sup>1-4</sup> PB-501 ed. I of 15.07.2022						
Hydrocarbons <sup>5</sup>	95% EtOH	10 d/ 60°C	mg/kg	0,12 ± 0,06	≤ 60	PASS
Phenol, 4-(1,1-dimethylpropyl)- [CAS: 80-46-6; RT: 18.3 min; MF: 99 %] <sup>6</sup>	95% EtOH	10 d/ 60°C	mg/kg	0,09 ± 0,04	≤ 10	PASS
2,4-Di-tert-butylphenol [CAS: 96-76-4; RT: 20.4 min; MF: 98 %] <sup>6</sup>	95% EtOH	10 d/ 60°C	mg/kg	0,14 ± 0,07	≤ 60	PASS
1-Octanol, 2-butyl- [CAS: 3913-02-8; RT: 21.5 min, 25.9 min; MF: 92.6%, 93.4%] <sup>7,8</sup>	95% EtOH	10 d/ 60°C	mg/kg	0,11 ± 0,06	≤ 1,8	PASS
Dodecanoic acid, ethyl ester [CAS: 106-33-2; RT: 22.1 min; MF: 97 %] <sup>6</sup>	95% EtOH	10 d/ 60°C	mg/kg	0,11 ± 0,06	≤ 60	PASS
Hexadecanoic acid, ethyl ester [CAS: 628-97-7; RT: 30.3 min; MF: 94 %] <sup>6</sup>	95% EtOH	10 d/ 60°C	mg/kg	0,04 ± 0,02		
Octadecanoic acid, ethyl ester [CAS: 111-61-5; RT: 34 min; MF: 92 %] <sup>6</sup>	95% EtOH	10 d/ 60°C	mg/kg	0,03 ± 0,02		
Phenol, 2,4-bis(1,1-dimethylpropyl)- [CAS: 120-95-6; RT: 24.2 min; MF: 94 %] <sup>6</sup>	95% EtOH	10 d/ 60°C	mg/kg	0,03 ± 0,01	≤ 10	PASS
1-Decanol, 2-hexyl- [CAS: 2425-77-6; RT: 29.9 min, 33.6 min; MF: 93.7%, 94.5%] <sup>7,8</sup>	95% EtOH	10 d/ 60°C	mg/kg	0,20 ± 0,10	≤ 1,8	PASS
13-Docosamide, (Z)- [CAS: 112-84-5; RT: 44.2 min; MF: 90 %] <sup>6</sup>	95% EtOH	10 d/ 60°C	mg/kg	0,44 ± 0,22	≤ 60	PASS
Phenol, 2,4-bis(1,1-dimethylethyl)-, phosphite (3:1) [CAS: 31570-04-4; RT: 50.9 min; MF: 92 %] <sup>6</sup>	95% EtOH	10 d/ 60°C	mg/kg	0,59 ± 0,30	≤ 60	PASS

\* Test method accredited

- Migration results expressed in mg/kg applying the conventional S/V ratio of 6 dm<sup>2</sup> per kg of food.
- According to Article 19 of Regulation (EU) No 10/2011, in case of unevaluated substances a risk assessment should be performed.
- In the applied GC-MS/FID screening method (DB-5 column, detector in EI mode) all identified substances were compared with the NIST library with Match Factor over 80%.  
The method is semi-quantitative and cannot be treated as equivalent to specific migration.

Annex date: 30.01.2024

Authorized by:

ID: 632, Senior Analytical Techniques Specialist, Non-Food and Packaging Laboratory

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4. RT (Retention Time); MF (Match Factor).
5. Due to the length of the carbon chain, substance was classified as POSH, The migration limit was adopted based on Polyolefin Oligomers: Research Project For Risk Assessment.
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. Substance classified as Cramer's class I.
8. Or other substance with similar mass spectrum.

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