Test Certificate No.7412210678-1

Issued under Section 12 of the Standards Law, 1953

This document cancels and replaces the test certificate No.7412210678 from the 22/09/2024

Details of order:

Name of customer:	COLDBE Ltd.
Address:	37 Yatkovsky Brothers St., Petah Tikva, Israel
Date order:	04-Sep-24

Sample Description as Declared:

Products:	PP bottles and containers with ABS lids
Manufacturer:	-
Sampled by:	**Customer**

Sample received in lab:	04-Sep-24
Testing time:	from: 04-Sep-24 to: 09-Oct-24
Test requested:	Selected test(s) as requested by client
Test method:	Please refer to next page(s)
Test results:	Please refer to next page(s)

Nature of the test

For compliance with EU Regulation 10/2011 as amended and with the requirements of Israeli Standard SI 5113 – "Plastic materials and plastic articles in contact with food and beverages", Jan 2019.

This document contains 7 pages and may use only in full.

The test results in this document refer only to the item tested.

This document does not constitute a license to mark the product with the standards mark

For compliance with EU Regulation 10/2011 as amended and Israeli Standard SII 5113 (2019)	
1. Overall migration according to Regulation (EU) 10/2011	Comply
2. Specific migration of primary aromatic amines (PAAs) according to Regulation (EU) 10/2011 and Regulation (EU) 1245/2020	Comply
3. Specific migration of substances according to annex II, Regulation (EU) 10/2011 and Regulation (EU) 1245/2020	Comply
4. Specific migration of 4,4'-(propane-2,2-diyl) diphenol (BPA) according to Regulation (EU) 10/2011	Comply
5. U.S. Food and Drug Administration 21 CFR 177.1520 – "Olefin polymers	Comply
Other tests as requested by client	
6. A Microwave claim verification	Pass
7. Dishwasher claim verification	Pass

** The Rule of Decision policy of the laboratory is to use binary statement with guard band (w) equal to the Uncertainty (U) of measurement. thus, providing specific risk with probability of false Rejection not greater than 2.5% approximately.*

Certified by:

Gadi Efrati
Head of Food Contact Materials Section

Evyatar Elmaleh
Practical Engineer

Date:09/10/2024

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Description: PP bottles and containers with ABS lids
High temperature applications for all types of food at temperature up to 100 °C.

1- Overall Migration Protocol -OM4

Selection of test conditions as specified to Regulation 10/2011 Annex III, V.
Selection of test method: EN 1186-1. **S/V = 6 dm²/kg**

Tested sample	Food Simulants	Test conditions	Result, mg/kg			Limit, mg/sq. dm
			1st	*2nd*	*3rd*	
PP bottles and containers with ABS lids	*A- Ethanol 10%*	*1 hours at 100°C*	*<10*	*<10*	*<10*	*60*
PP bottles and containers with ABS lids	*A- Acetic acid 3%*	*1 hours at 100°C*	*<10*	*<10*	*<10*	*60*
PP bottles and containers with ABS lids	*D2- Ethanol 95%*	*3 hours at 60°C*	*<10*	*<10*	*<10*	*60*
PP bottles and containers with ABS lids	*D2- Isooctane*	*1 hours at 60°C*	*<10*	*<10*	*<10*	*60*

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2- Specific migration of Primary aromatic amines (PAAs)- according to Regulation (EU) 10/2011

Method: UNI EN 13130-1:2005 + JRC-IHCP EU RL-FCM Aromatic amines Protocol A Ed.1 2011.

***Test conditions**: Acetic acid 3%- 100°C for 1 hour.*

Chemical parameters	**Limit, mg/kg**	**MDL, mg/kg**	**Results, mg/kg**		
			1st	*2nd*	*3rd*
Specific migration of sum of Primary aromatic amines	-	*0.01*	*ND*	*ND*	*ND*
2,2'-dichloro-4,4'-methylenedianiline (MOCA)	*101-14-4*	*0.002*	*ND*	*ND*	*ND*
2,4,5-trimethylaniline	*137-17-7*	*0.002*	*ND*	*ND*	*ND*
2-Methoxyaniline, o-Anisidine	*90-04-0*	*0.002*	*ND*	*ND*	*ND*
2-naphthylamine	*91-59-8*	*0.002*	*ND*	*ND*	*ND*
3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4'-ylenediamine	*91-94-1*	*0.002*	*ND*	*ND*	*ND*
3,3'-dimethoxybenzidine o-dianisidine	*119-90-4*	*0.002*	*ND*	*ND*	*ND*
3,3'-dimethylbenzidine 4,4'-bi-o-toluidine	*119-93-7*	*0.002*	*ND*	*ND*	*ND*
4,4'-methylenedi-o-toluidine	*838-88-0*	*0.002*	*ND*	*ND*	*ND*
4,4'-oxydianiline	*101-80-4*	*0.002*	*ND*	*ND*	*ND*
4,4'-thiodianiline	*139-65-1*	*0.002*	*ND*	*ND*	*ND*
4,4'-Methylenedianiline (MDA)	*101-77-9*	*0.002*	*ND*	*ND*	*ND*
4-Aminoazobenzene	*60-09-3*	*0.002*	*ND*	*ND*	*ND*
4-chloro-o-toluidine	*95-69-2*	*0.002*	*ND*	*ND*	*ND*
4-chloroaniline	*106-47-8*	*0.002*	*ND*	*ND*	*ND*
4-methoxy-m-phenylenediamine	*615-05-4*	*0.002*	*ND*	*ND*	*ND*
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	*95-80-7*	*0.002*	*ND*	*ND*	*ND*
5-nitro-o-toluidine	*99-55-8*	*0.002*	*ND*	*ND*	*ND*
6-methoxy-m-toluidine (p-cresidine)	*120-71-8*	*0.002*	*ND*	*ND*	*ND*
Benzidine	*92-87-5*	*0.002*	*ND*	*ND*	*ND*
4-aminobiphenyl	*92-67-1*	*0.002*	*ND*	*ND*	*ND*
o-aminoazotoluene,4-amino-2',3-dimethylazobenzene,4-o-tolylazo-o-toluidine	*97-56-3*	*0.002*	*ND*	*ND*	*ND*
o-toluidine,2-aminotoluene	*95-53-4*	*0.002*	*ND*	*ND*	*ND*

ND= Not Detected (<MDL); MDL=Method Detection Limit;

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3- Specific migration of substances according to Regulation (EU) 10/2011 and Regulation (EU) 1245/2020					
Selection of test method: EN 13130-1 and sample preparation in acetic acid 3% v/v at 100°C for 1 hour. As specified in Regulation (EU) No. 10/2011 ANNEX II. Method: ICP-MS					
Substances	**SML, mg/kg**	**MDL, mg/kg**	**Results, mg/kg**		
			1st	*2nd*	*3rd*
Aluminum (Al)	*1*	*0.05*	*ND*	*ND*	*ND*
Antimony (Sb)	*0.04*	*0.002*	*ND*	*ND*	*ND*
Arsenic (As)	*0.01*	*0.002*	*ND*	*ND*	*ND*
Barium (Ba)	*1*	*0.05*	*ND*	*ND*	*ND*
Cadmium (Cd)	*0.002*	*0.001*	*ND*	*ND*	*ND*
Chromium (Cr)[1]	*0.002*	*0.01*	*ND*	*ND*	*ND*
Cobalt (Co)	*0.05*	*0.002*	*ND*	*ND*	*ND*
Copper (Cu)	*5*	*0.1*	*ND*	*ND*	*ND*
Zinc (Zn)	*5*	*0.1*	*ND*	*ND*	*ND*
Iron (Fe)	*48*	*0.2*	*ND*	*ND*	*ND*
Lead (Pb)	*0.01*	*0.002*	*ND*	*ND*	*ND*
Lithium (Li)	*0.6*	*0.02*	*ND*	*ND*	*ND*
manganese (Mn)	*0.6*	*0.02*	*ND*	*ND*	*ND*
Mercury (Hg)	*0.002*	*0.002*	*ND*	*ND*	*ND*
Nickel (Ni)	*0.02*	*0.002*	*ND*	*ND*	*ND*
Terbium (Tb)[2]	*0.05*	*0.002*	*ND*	*ND*	*ND*
Lanthanum (La)[2]					
Europium (Eu)[2]					
Gadolinium (Gd)[2]					
Note: ppm=mg/kg (1,000 ppm=1,000 mg/kg=0.1%); SML = Specific Migration Limit; ND= Not Detected (<MDL); MDL=Method Detection Limit;					

1. *Less stringent limit of 3.6 mg/kg applies if pre-existing documentation demonstrates Cr (VI) is excluded.*
2. *Lanthanide substances can be used according to Article 6(3)(a) subject to SML is no more than 0.05 mg/kg for the sum of all lanthanide substances and the analytical evidence using a procedure demonstrating the lanthanide substance(s) used are present in dissociated ionic form in food or food simulant forms part of the documentation in Article 16.*

4- Specific migration of 4,4'-(propane-2,2-diyl) diphenol (BPA)- according to Regulation (EU) 10/2011						
As specified in Regulation (EU) No. 10/2011 ANNEX I and V. Method: EN 14350-2:2004						
Food Simulants	***Test conditions***	**MDL, mg/kg**	***SML, mg/kg***	***Results, mg/kg***		
				1st	*2nd*	*3rd*
Acetic acid 3%	*1 hour at 100° C*	0.02	*0.02*	*ND*	*ND*	*ND*

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5.a- Density at 23°C – FDA 21 CFR 177.1520		
Test Method: With reference to US FDA 21 CFR 177.1520 (d) (1).		
Tested sample	***Limit (gr/cm^3)***	***Result (gr/cm^3)***
PP bottles and containers with ABS lids	*0.85-1.00*	*0.90*

5.b- Melting point – FDA 21 CFR 177.1520		
Test Method: With reference to US FDA 21 CFR 177.1520 (d) (2).		
Tested sample	***Limit (ºC)***	***Result (ºC)***
PP bottles and containers with ABS lids	*160-180*	*167*

5.c- Extractable fraction – FDA 21 CFR 177.1520				
Test Method: With reference to US FDA 21 CFR 177.1520 (d) (3) (ii).				
Tested sample	***Simulant***	***Test conditions***	***Limit, %(W/W)***	***Result, %(W/W)***
PP bottles and containers with ABS lids	*n- Hexane*	*2 hours at reflux temperature*	*<6.4*	*4.1*

5.d- Soluble fraction in Xylene – FDA 21 CFR 177.1520		
Test Method: With reference to US FDA 21 CFR 177.1520 (d) (4) (ii).		
Tested sample	***Limit, %(W/W)***	***Result, %(W/W)***
PP bottles and containers with ABS lids	*<9.8*	*2.4*

6-Product containing a microwave safe claim

The samples were filled with 75% water according to the type of the item. Microwave the sample for 5 minutes with power of the microwave at 800 W (or equivalent energy i.e. 300 kJ.).
Sample shall withstand test with no distortion, melting, surface deformation or staining after the test. For sample with handle, the temperature of the gripping area shall not exceed 60ºC.

In house method 221.2055				
Test	***Test conditions***	***Sample size***	***Results***	***Comments***
Microwave test	5 minutes with power of the microwave at 800 W	2	No defects	*the temperature of the gripping area: 50ºC*

*The test is not under ANAB accreditation

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7-Product containing a dishwasher safe claim

Shall exhibit no surface degradation such as cracks, color fading, scratches, or deformation such as warping after 5 cycles.

In house method 221.2059				
Test	***Test conditions***	***Sample size***	***Results***	***Comments***
Dishwasher *test*	After subjected to 5 dishwasher cycles	5	No defects	-

*The test is not under ANAB accreditation

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ANNEX I – TEST SAMPLE

Description	*Tested item picture*
PP bottles and containers with ABS lids	

-End of Document-