

TEST REPORT

Report No. : MAN:HL:1248002579

DATE :07th April, 2021



MYGREEN ENVIROPRODUCTS PRIVATE LIMITED
 PLOT NO 51, ECOTECH-I EXT., GREATER NOIDA
 GAUTAM BUDDHA NAGAR, UTTAR PRADESH
 INDIA
CONTACT PERSON : SACHIN KUMAR

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS :

SAMPLE DESCRIPTION COMPOSTABLE BAGS & FILM
COLOUR LIGHT GREEN
STYLE NO. NT 001
COUNTRY OF DESTINATION EUROPE, USA, OCEANIA
COUNTRY OF ORIGIN INDIA
SAMPLE RECD ON 01/04/2021
TEST PERFORMING DATE 01/04/2021 TO 07/04/2021

SUMMARY OF TEST RESULTS:

TEST REQUESTED	CONCLUSION
1. TESTING AS PER COMMISSION REGULATION (EU) NO. 10/2011	--
a) OVERALL MIGRATION	PASS
b) SPECIFIC MIGRATION OF BISPHENOL A	PASS
c) SPECIFIC MIGRATION OF PHTHALATES	PASS
d) SPECIFIC MIGRATION OF HEAVY METALS	PASS
2. UNWANTED MATERIAL AS PER LFGB SECTION 30 (LEAD & CADMIUM)	PASS

TEST(S) RESULT & METHOD: PLEASE REFER TO NEXT PAGE(S)

Per Pro SGS India Pvt.Ltd.



SANDIP BHUSHAN (Technical Manager)
Authorized Signatory

Email your Test Report Related Enquiries at Feedback.HLT@sgs.com

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TEST RESULT:

1. TESTING AS PER COMMISSION REGULATION (EU) No 10/2011:

a) OVERALL MIGRATION:

Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods. (1st Migration);
EN 1186-3:2002 aqueous food simulants by total immersion method;

Simulant Used	Test Condition	Result (mg/dm ²)	Reporting Limit (mg/dm ²)	Permissible Limit (mg/dm ²)
3% Acetic acid	70°C for 2 Hours	Not Detected	2.0	10
10% Ethanol	70°C for 2 Hours	Not Detected	2.0	10
95% Ethanol	60°C for 2 Hours	Not Detected	2.0	10
Isooctane	40°C for 30 min	Not Detected	2.0	10
Conclusion	--	Pass	--	--

Tested Item : COMPOSTABLE BAGS & FILM

Note :-

1. mg/dm²= milligram per square decimeter
2. °C = degree Celsius
3. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
4. Testing has been subcontracted to SGS Gurugram lab.

Remark :-

1. Analytical tolerance of aqueous simulants is 2mg/dm² or 12mg/kg
2. Test condition & simulant were specified by client.

b) SPECIFIC MIGRATION OF BISPENOL A:

Method: With reference to EN 13130-1:2004. Analysis was performed by HPLC-MS.

Simulant Used: 3% Acetic acid (w/v) in aqueous solution

Test Condition: 70°C for 2 hours (1st Migration)

Test Item	Result (ppm)	Reporting Limit (ppm)	Permissible Limit (ppm)
Specific migration of Bisphenol A	Not Detected	0.01	Prohibited
Conclusion:	Pass	--	--

Simulant Used: 10% Ethanol (w/v) in aqueous solution

Test Condition: 70°C for 2 hours (1st Migration)

Test Item	Result (ppm)	Reporting Limit (ppm)	Permissible Limit (ppm)
Specific migration of Bisphenol A	Not Detected	0.01	Prohibited
Conclusion:	Pass	--	--

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SPECIFIC MIGRATION OF BISPHENOL A:

Method: With reference to EN 13130-1:2004. Analysis was performed by HPLC-MS.
Simulant Used: 20% Ethanol (w/v) in aqueous solution
Test Condition: 70°C for 2 hours (1st Migration)

Test Item	Result (ppm)	Reporting Limit (ppm)	Permissible Limit (ppm)
Specific migration of Bisphenol A	Not Detected	0.01	Prohibited
Conclusion:	Pass	--	--

Simulant Used: 50% Ethanol (w/v) in aqueous solution
Test Condition: 70°C for 2 hours (1st Migration)

Test Item	Result (ppm)	Reporting Limit (ppm)	Permissible Limit (ppm)
Specific migration of Bisphenol A	Not Detected	0.01	Prohibited
Conclusion:	Pass	--	--

Tested Item : COMPOSTABLE BAGS & FILM

Note :-

1. ppm = parts per million.
2. Test condition simulant&test elements were specified by client.
3. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
4. Testing has been subcontracted to SGS Gurugram lab.

c) SPECIFIC MIGRATION OF PHTHALATES:

Method: With reference to EN 13130-1:2004. Analysis was performed by GC-MS.
Simulant Used 3% Acetic acid
Test Condition: 70°C for 2 hours (1st Migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Dibutyl phthalate (DBP)	Not Detected	0.1	0.3
Benzyl butyl phthalate (BBP)	Not Detected	0.5	30
Bis-(2-ethylhexyl) phthalate (DEHP)	Not Detected	0.1	1.5
Diisononyl phthalate + Diisodecyl phthalate (DINP + DIDP)	Not Detected	0.5	9
Diallyl phthalate (DAP)	Not Detected	0.01	0.01
Conclusion:	PASS	--	--

Tested Item : COMPOSTABLE BAGS & FILM

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SPECIFIC MIGRATION OF PHTHALATES:

Method: With reference to EN 13130-1:2004. Analysis was performed by GC-MS.
Simulant Used 10% Ethanol
Test Condition: 70°C for 2 hours (1st Migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Dibutyl phthalate (DBP)	Not Detected	0.1	0.3
Benzyl butyl phthalate (BBP)	Not Detected	0.5	30
Bis-(2-ethylhexyl) phthalate (DEHP)	Not Detected	0.1	1.5
Diisononyl phthalate + Diisodecyl phthalate (DINP + DIDP)	Not Detected	0.5	9
Diallyl phthalate (DAP)	Not Detected	0.01	0.01
Conclusion:	PASS	--	--

Tested Item : COMPOSTABLE BAGS & FILM

SPECIFIC MIGRATION OF PHTHALATES:

Method: With reference to EN 13130-1:2004. Analysis was performed by GC-MS.
Simulant Used Iso-Octane
Test Condition: 40°C for 30 Minutes (1st Migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Dibutyl phthalate (DBP)	Not Detected	0.1	0.3
Benzyl butyl phthalate (BBP)	Not Detected	0.5	30
Bis-(2-ethylhexyl) phthalate (DEHP)	Not Detected	0.1	1.5
Diisononyl phthalate + Diisodecyl phthalate (DINP + DIDP)	Not Detected	0.5	9
Diallyl phthalate (DAP)	Not Detected	0.01	0.01
Conclusion:	PASS	--	--

Tested Item : COMPOSTABLE BAGS & FILM

SPECIFIC MIGRATION OF PHTHALATES:

Method: With reference to EN 13130-1:2004. Analysis was performed by GC-MS.
Simulant Used 95% Ethanol
Test Condition: 60°C for 2 Hours (1st Migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Dibutyl phthalate (DBP)	Not Detected	0.1	0.3
Benzyl butyl phthalate (BBP)	Not Detected	0.5	30
Bis-(2-ethylhexyl) phthalate (DEHP)	Not Detected	0.1	1.5
Diisononyl phthalate + Diisodecyl phthalate (DINP + DIDP)	Not Detected	0.5	9
Diallyl phthalate (DAP)	Not Detected	0.01	0.01
Conclusion:	PASS	--	--

Tested Item : COMPOSTABLE BAGS & FILM

Note :-

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
4. Test condition & simulant were specified by client.
5. Above all testing has been subcontracted to SGS Gurugram lab.

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d) SPECIFIC MIGRATION OF HEAVY METALS:-

Method: With reference to EN 13130-1:2004. Analysis was performed by ICP-MS / ICP-OES.

Simulant Used: 3% Acetic Acid (w/v) in aqueous solution

Test Condition: 70°C for 2 hours (1st Migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Specific Migration of Aluminium	Not Detected	0.1	1
Specific Migration of Antimony	Not Detected	0.01	0.04
Specific Migration of Arsenic	Not Detected	0.01	0.01
Specific Migration of Barium	Not Detected	0.25	1
Specific Migration of Cadmium	Not Detected	0.002	0.002
Specific Migration of Chromium	Not Detected	0.01	0.01
Specific Migration of Cobalt	Not Detected	0.01	0.05
Specific Migration of Copper	Not Detected	0.25	5
Specific Migration of Iron	Not Detected	0.25	48
Specific Migration of Lead	Not Detected	0.01	0.01
Specific Migration of Lithium	Not Detected	0.5	0.6
Specific Migration of Manganese	Not Detected	0.25	0.6
Specific Migration of Mercury	Not Detected	0.01	0.01
Specific Migration of Nickel	Not Detected	0.01	0.02
Specific Migration of Zinc	Not Detected	0.5	5
Specific Migration of Europium	Not Detected	0.01	0.05
Specific Migration of Gadolinium	Not Detected	0.01	
Specific Migration of Lanthanum	Not Detected	0.01	
Specific Migration of Terbium	Not Detected	0.01	
Conclusion	Pass	--	--

Tested Item : COMPOSTABLE BAGS & FILM

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SPECIFIC MIGRATION OF HEAVY METALS:-

Method: With reference to EN 13130-1:2004. Analysis was performed by ICP-MS / ICP-OES.

Simulant Used: 10% Ethanol (w/v) in aqueous solution

Test Condition: 70°C for 2 hours (1st Migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Specific Migration of Aluminium	Not Detected	0.1	1
Specific Migration of Antimony	Not Detected	0.01	0.04
Specific Migration of Arsenic	Not Detected	0.01	0.01
Specific Migration of Barium	Not Detected	0.25	1
Specific Migration of Cadmium	Not Detected	0.002	0.002
Specific Migration of Chromium	Not Detected	0.01	0.01
Specific Migration of Cobalt	Not Detected	0.01	0.05
Specific Migration of Copper	Not Detected	0.25	5
Specific Migration of Iron	Not Detected	0.25	48
Specific Migration of Lead	Not Detected	0.01	0.01
Specific Migration of Lithium	Not Detected	0.5	0.6
Specific Migration of Manganese	Not Detected	0.25	0.6
Specific Migration of Mercury	Not Detected	0.01	0.01
Specific Migration of Nickel	Not Detected	0.01	0.02
Specific Migration of Zinc	Not Detected	0.5	5
Specific Migration of Europium	Not Detected	0.01	0.05
Specific Migration of Gadolinium	Not Detected	0.01	
Specific Migration of Lanthanum	Not Detected	0.01	
Specific Migration of Terbium	Not Detected	0.01	
Conclusion	Pass	--	--

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SPECIFIC MIGRATION OF HEAVY METALS:-

Method: With reference to EN 13130-1:2004. Analysis was performed by ICP-MS / ICP-OES.

Simulant Used: Isooctane (w/v) in aqueous solution

Test Condition: 40°C for 30 min (1st Migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Specific Migration of Aluminium	Not Detected	0.1	1
Specific Migration of Antimony	Not Detected	0.01	0.04
Specific Migration of Arsenic	Not Detected	0.01	0.01
Specific Migration of Barium	Not Detected	0.25	1
Specific Migration of Cadmium	Not Detected	0.002	0.002
Specific Migration of Chromium	Not Detected	0.01	0.01
Specific Migration of Cobalt	Not Detected	0.01	0.05
Specific Migration of Copper	Not Detected	0.25	5
Specific Migration of Iron	Not Detected	0.25	48
Specific Migration of Lead	Not Detected	0.01	0.01
Specific Migration of Lithium	Not Detected	0.5	0.6
Specific Migration of Manganese	Not Detected	0.25	0.6
Specific Migration of Mercury	Not Detected	0.01	0.01
Specific Migration of Nickel	Not Detected	0.01	0.02
Specific Migration of Zinc	Not Detected	0.5	5
Specific Migration of Europium	Not Detected	0.01	0.05
Specific Migration of Gadolinium	Not Detected	0.01	
Specific Migration of Lanthanum	Not Detected	0.01	
Specific Migration of Terbium	Not Detected	0.01	
Conclusion	Pass	--	--

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SPECIFIC MIGRATION OF HEAVY METALS:-

Method: With reference to EN 13130-1:2004. Analysis was performed by ICP-MS / ICP-OES.

Simulant Used: 95% Ethanol (w/v) in aqueous solution

Test Condition: 60°C for 2 hours (1st Migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Specific Migration of Aluminium	Not Detected	0.1	1
Specific Migration of Antimony	Not Detected	0.01	0.04
Specific Migration of Arsenic	Not Detected	0.01	0.01
Specific Migration of Barium	Not Detected	0.25	1
Specific Migration of Cadmium	Not Detected	0.002	0.002
Specific Migration of Chromium	Not Detected	0.01	0.01
Specific Migration of Cobalt	Not Detected	0.01	0.05
Specific Migration of Copper	Not Detected	0.25	5
Specific Migration of Iron	Not Detected	0.25	48
Specific Migration of Lead	Not Detected	0.01	0.01
Specific Migration of Lithium	Not Detected	0.5	0.6
Specific Migration of Manganese	Not Detected	0.25	0.6
Specific Migration of Mercury	Not Detected	0.01	0.01
Specific Migration of Nickel	Not Detected	0.01	0.02
Specific Migration of Zinc	Not Detected	0.5	5
Specific Migration of Europium	Not Detected	0.01	0.05
Specific Migration of Gadolinium	Not Detected	0.01	
Specific Migration of Lanthanum	Not Detected	0.01	
Specific Migration of Terbium	Not Detected	0.01	
Conclusion	Pass	--	--

Tested Item : COMPOSTABLE BAGS & FILM

Note :-

1. mg/kg= milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 and its amendment (EU) 2020/1245 Regulation.
4. Test condition simulant & test elements were specified by client.
5. Testing has been subcontracted to SGS Gurugram lab.

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2. UNWANTED MATERIAL AS PER LFGB SECTION 30, 31 (PB, CD):

Method: With Ref. to EN 11885 : 2004 For Lead and Cadmium Content; With Ref. To EN 13130-1 For Specific Migration of Lead. Analysis was performed by ICP OES.

Test Item(s)	Result (mg/kg)	Detection Limit (mg/kg)	Maximum Permissible Limit (mg/kg)
Lead (Pb)	Not Detected	2	Absent
Cadmium (Cd)	Not Detected	2	Absent
Conclusion:	Pass	--	--

Tested Item : COMPOSTABLE BAGS & FILM

Note :-

1. mg/kg= milligram per kilogram of foodstuff in contact with
2. Testing has been subcontracted to SGS Gurugram lab.
3. Above all testing ahs been performed as per client's request.

Samples as Received



***** END OF REPORT*****