



**TEST REPORT**

**Report No. GR:HL:1352000946**

**DATE : 14<sup>th</sup> June, 2022**



**HI – TECH INTERNATIONAL**  
RAMGARH SAHNEWAL AIRPORT  
ROAD – LUDHIANA- 141123  
INDIA  
**CONTACT PERSON: ISHAN SIKKA**

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

<b>SAMPLE DESCRIPTION</b>	STRAW
<b>COLOUR</b>	GREEN
<b>COUNTRY OF ORIGIN</b>	INDIA
<b>SAMPLE RECD ON</b>	02/06/2022
<b>TEST PERFORMING DATE</b>	07/06/2022 TO 14/06/2022

**SUMMARY OF TEST RESULTS:**

<b>TEST REQUESTED</b>	<b>CONCLUSION</b>
<b>NABL ACCREDITED TESTS:</b>	--
<b>1. SPECIFIC MIGRATION OF HEAVY METALS</b>	PASS
<b>2. DETERMINATION OF OVERALL MIGRATION OF CONSTITUENTS OF PLASTIC MATERIALS AND ARTICLES INTENDED TO COME IN CONTACT WITH FOOD STUFFS – ACCORDING TO IS 9845: 1998 (R 2015)</b>	PASS
<b>3. SPECIFIC MIGRATION OF BIS-(2-ETHYLHEXYL) PHTHALATE (DEHP)</b>	PASS
<b>NON NABL ACCREDITED TESTS:</b>	--
<b>4. SPECIFIC MIGRATION OF ANTIMONY</b>	PASS

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

**Per Pro SGS India Private Ltd**

**Authorised Signatory**  
**Prabhat Ranjan Jena**  
**(Manager-RSL)**

Email your Test Report Related Enquiries at [Feedback.HLT@sgs.com](mailto:Feedback.HLT@sgs.com)

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### TEST RESULTS :

#### 1. SPECIFIC MIGRATION OF HEAVY METALS:

**Method:** With reference to EN 13130-1: 2004, Analysis was performed by ICP-MS  
**Simulant Used:** 3% Acetic Acid  
**Test Condition:** 40 °C for 02 hours (1<sup>st</sup> Migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Specific Migration of Barium	Not Detected	0.25	1
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 Lithium	Not Detected	0.5	0.6
Specific Migration of Manganese	Not Detected	0.25	0.6
Specific Migration of Zinc	Not Detected	0.5	25
<b>Conclusion</b>	Pass	--	--

**Tested Item:** STRAW

#### Note :-

1. mg/kg= milligram per kilogram
2. °C = degree Celsius
3. Permissible Limit is according to indian food safety and standard (packaging) Regulations 2018 with amendments.
4. Test condition & simulant were specified by customer.

#### 2. OVERALL MIGRATION:

**Method:** IS 9845: 1998 (R 2015) (1<sup>st</sup> Migration)

Simulant Used	Test Condition	Result (Amount of Extractives)		Permissible Limit	
		(mg/kg)	(mg/dm <sup>2</sup> )	(mg/kg)	(mg/dm <sup>2</sup> )
3% Acetic Acid	40 °C for 02 hours	<12	<2	60	10
<b>Conclusion</b>	--	Pass	Pass	--	--

**Tested Item:** STRAW

#### Note :-

1. mg/dm<sup>2</sup> = milligram per decimeter square, mg/kg = milligram per kilogram
2. °C = degree Celsius, < = less than
3. Permissible Limit is according to indian food safety and standard (packaging) Regulations 2018 with amendments.
4. Test condition & simulant were specified by customer.

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**3. SPECIFIC MIGRATION OF BIS-(2-ETHYLHEXYL) PHTHALATE (DEHP):**
**Method:** With reference to EN 13130-1:2004. Analysis was performed by GC-MS.

**Simulant Used** 3% Acetic Acid

**Test Condition:** 40 °C for 02 hours (1<sup>st</sup> Migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Bis-(2-ethylhexyl) phthalate (DEHP)	Not Detected	0.1	1.5
<b>Conclusion</b>	Pass	--	--

**Tested Item:** STRAW

**Note :-**

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. Permissible Limit is according to notice for operationalisation of draft food safety and standards (Packaging) amendment regulations 2020.
4. Test condition & simulant were specified by customer.

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### 4. SPECIFIC MIGRATION OF ANTIMONY:

**Method:** With reference to EN 13130-1: 2004, Analysis was performed by ICP-MS  
**Simulant Used:** 3% Acetic Acid  
**Test Condition:** 40 °C for 02 hours (1<sup>st</sup> Migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Specific Migration of Antimony	Not Detected	0.02	0.04
<b>Conclusion</b>	Pass	--	--

**Tested Item:** STRAW

**Note :-**

1. mg/kg= milligram per kilogram
2. °C = degree Celsius
3. Permissible Limit of antimony is according to notice for operationalisation of draft food safety and standards (Packaging) amendment regulations 2020.
4. Test condition & simulant were specified by customer.
5. Above all testing has been performed as per customer request.

**Sample as Received**



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