



Test Report

No.T32320320015SC-01

Date: Sep 14, 2023

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新陸洋生物科技有限公司
BIOCEANLAND LIMITED
FLAT C, 17/F, BLOCK 6,BELVEDERE GARDEN PHASE III,625 CASTLE PEAK ROAD,TSUEN
WA,HONG KONG

This report supersedes all previous documents bearing the test report number T32320320015SC with amendment on report information as editorial change.

The following samples were submitted and identified by/on behalf of the client as:

PVA STARCH WATER-SOLUBLE FILM

Case No. : CA323203200509
Sample Receiving Date : SEP 04, 2023
Testing Period : SEP 04, 2023 – SEP 12, 2023

Test Requested	Conclusion
1. European RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC	PASS
2. European RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU – DEHP, BBP, DBP and DIBP content	PASS

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS Hong Kong Ltd.

Lam Chi Ho, Jacko
Senior Chemist

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Test Results:

1. European RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC

Cadmium, Lead, Mercury, Hexavalent Chromium, Polybromobiphenyl (PBB) and Polybromodiphenyl ether (PBDE) content

Method :

- For Lead, Cadmium : With reference to IEC 62321-5:2013, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Atomic Absorption Spectrometer (AAS).
- For Mercury : With reference to IEC 62321-4:2013+AMD1:2017, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).
- For PBB and PBDEs : With reference to IEC 62321-6:2015, analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)
- For Chromium (VI) : With reference to IEC 62321-7-2:2017, analysis was performed by Ultraviolet Visible Spectrophotometer (UV-Vis)

Test Item	Result (mg/kg)		Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	1			
Cadmium (Cd)	ND		5	100
Lead (Pb)	ND		5	1000
Mercury (Hg)	ND		5	1000
Hexavalent Chromium (Cr(VI))	ND		5	1000
Sum of PBBs	ND		--	1000
Monobromobiphenyl	ND		5	--
Dibromobiphenyl	ND		5	--
Tribromobiphenyl	ND		5	--
Tetrabromobiphenyl	ND		5	--
Pentabromobiphenyl	ND		5	--
Hexabromobiphenyl	ND		5	--
Heptabromobiphenyl	ND		5	--
Octabromobiphenyl	ND		5	--
Nonabromobiphenyl	ND		5	--
Decabromobiphenyl	ND		5	--
Sum of PBDEs	ND		--	1000
Monobromodiphenyl ether	ND		5	--
Dibromodiphenyl ether	ND		5	--
Tribromodiphenyl ether	ND		5	--
Tetrabromodiphenyl ether	ND		5	--
Pentabromodiphenyl ether	ND		5	--
Hexabromodiphenyl ether	ND		5	--
Heptabromodiphenyl ether	ND		5	--
Octabromodiphenyl ether	ND		5	--
Nonabromodiphenyl ether	ND		5	--
Decabromodiphenyl ether	ND		5	--
Comment	PASS		--	--

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Sample Description:

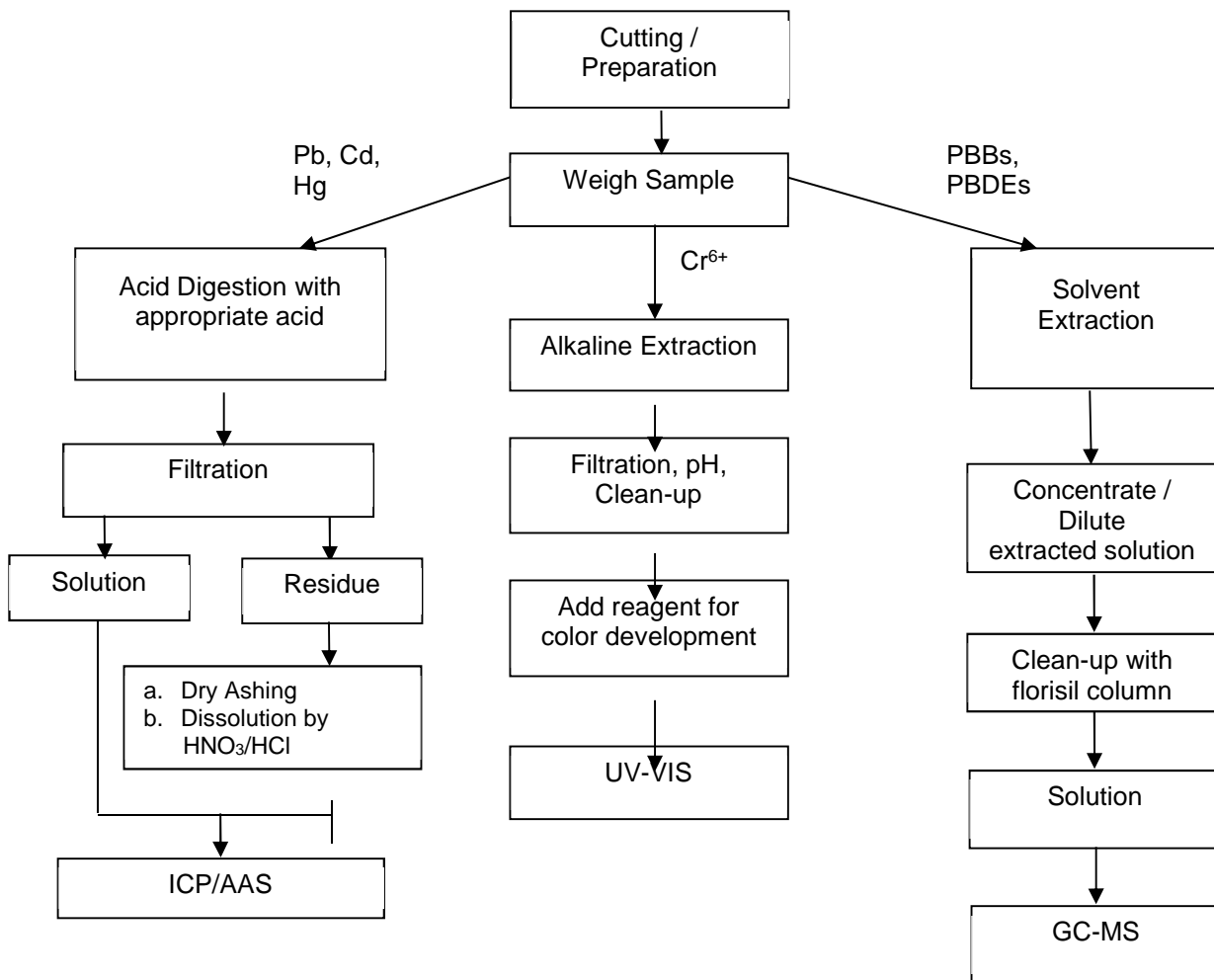
1. Transparent soft plastic (Film)

Note : 1. mg/kg = milligram per kilogram
2. ND = Not Detected

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Flowchart:



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- Note : 1. For Cr(VI), spot test is adopted for metal sample.
2. The Cd and Pb contents test on polymeric samples were dissolved totally by pre-conditioning method according to above flow chart.

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2. European RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU – DEHP, BBP, DBP and DIBP content

Method : With reference to IEC 62321-8:2017. Analysis was performed by Gas Chromatography / Mass Spectrometry

Test Item	CAS No.	Result (%)	Reporting Limit (%)	Permissible Limit (%)
		1		
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	0.003	0.1
Dibutyl Phthalate (DBP)	84-74-2	ND	0.003	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.003	0.1
Comment	--	PASS	--	--

Sample Description:

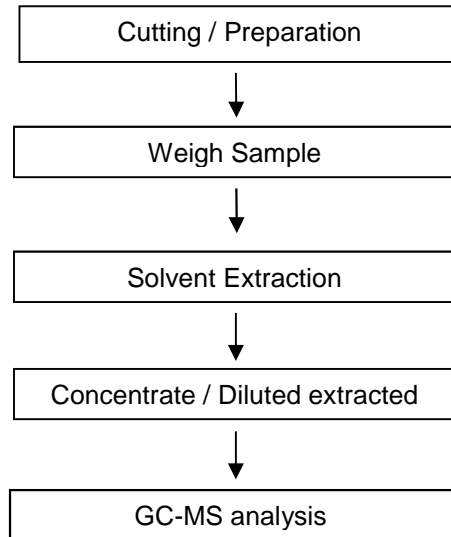
1. Transparent soft plastic (Film)

Note : 1. % = percentage by weight
2. ND = Not Detected

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Flowchart:



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Remark:

When statement of conformity is made, unless inherent in the requested specification, the decision rule would be based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability, $w = U_{95}$) in ILAC-G8:09/2019 Clause 4.2.3.

“Pass - the measured value is within (or below / above) the acceptance limit, where the acceptance limit is below / above to the guard band.” or “Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%.”.

“Fail - the measured value is out of (or below / above) the tolerance limit added / subtracted to the guard band.” or “Fail - One or more measured values were observed out of tolerance at the points tested”. The specific false reject risk is up to 2.5%.

“Inconclusive – It is not possible to state the conformity. Either one or more measured values were observed in the portion of the expanded measurement uncertainty intervals at the points tested where the specific risk is up to 50%.”

Sample Photo:

Pic.1



SGS authenticate the photo on original report only

*** End of Report ***

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