

GRATNELLS LTD 8 HOWARD WAY HARLOW ESSEX CM20 2SU UNITED KINGDOM Attn: Anthony Byrne

Test Report No. BTO 275817/2 Issue Date: 23rd January 2020

The following sample was submitted and identified by the client as:

- Sample Name: Gratnells Biobased Trays
- Sample Description: Plastic trays, 31x26x15 cm.
- Sample Submitted: 15th January 2020
- Testing Period:Testing conducted between 20th January 2020 and 23rdJanuary 2020(Please note that this testing was conducted at another laboratory within the SGS group of companies)
- Tests Requested: Please refer to the result summary.
- Test Method & Results: Please refer to next page(s)

Result Summary:

Test Requested	Conclusion
Directive 2009/48/EC and its Amendment Council	PASS
Directive (EU) 2017/738, Commission Directive (EU)	
2018/725 – EN71-3:2019 Migration of certain elements	

Signed for and on behalf of SGS United Kingdom Ltd.

Chris Walker, BSc (Hons) Technical Manager

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APPENDIX

Test Results:

Directive 2009/48/EC and its Amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725 – EN71-3:2019 Migration of certain elements

Category III: Scraped-off toy material

Method: With reference to EN 71 Part 3: 2019. Analysis of general elements was performed by ICP- OES. Chromium (III) was obtained by calculation, chromium (VI) was analysed by IC-UV/VIS.

Test Item(s)		Result(s) (mg/kg)	Reporting Limit	Permissible Limit
			(mg/kg)	(EN71-3:2019)
				(mg/kg)
Specimen No.		A1	-	-
Mass of trace amount	(mg)		-	-
Soluble Aluminium (AI)	(mg/kg)	ND	50	70,000
Soluble Antimony (Sb)	(mg/kg)	ND	10	560
Soluble Arsenic (As)	(mg/kg)	ND	10	47
Soluble Barium (Ba)	(mg/kg)	ND	50	18,750
Soluble Boron (B)	(mg/kg)	ND	50	15,000
Soluble Cadmium (Cd)	(mg/kg)	ND	5	17
Soluble Chromium (Cr)	(mg/kg)	0.14	0.053	
Soluble Chromium(III) (Cr (III))	(mg/kg)	ND	5	460
Soluble Chromium(VI) (Cr(VI))	(mg/kg)	ND	0.053	0.053
Soluble Cobalt (Co)	(mg/kg)	ND	10	130
Soluble Copper (Cu)	(mg/kg)	ND	50	7,700
Soluble Lead (Pb)	(mg/kg)	ND	10	23
Soluble Manganese (Mn)	(mg/kg)	ND	50	15,000
Soluble Mercury (Hg)	(mg/kg)	ND	10	94
Soluble Nickel (Ni)	(mg/kg)	ND	10	930
Soluble Selenium (Se)	(mg/kg)	ND	10	460
Soluble Strontium (Sr)	(mg/kg)	ND	50	56,000
Soluble Tin (Sn)	(mg/kg)	ND	4.9	180,000
Soluble Organic Tin [^] -	(mg/kg)			12
Soluble Zinc (Zn)	(mg/kg)	ND	50	46,000
Conclusion		PASS		

Specimen Description:

A1 Light grey plastic main

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Note:

- mg/kg = milligram per kilogram
- ND = Not Detected
- 1% = 10000mg/kg = 10000ppm
- Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirements as specified in EN71-3:2019

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*** End of Report ***

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