

# TEST REPORT

**APPLICANT** : CROMOLOGY, S.L.

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**SAMPLE DESCRIPTION** : 100% SOLIDOS/ NEW FORMULA BTR - MUESTRA

**ARTICLE NO.** : 7340003+7340999

**SAMPLE RECEIVED DATE** : 12-Mar-2020

**TURN AROUND TIME** : 12-Mar-2020 to 16-Mar-2020

The following test item(s) was/were performed on submitted sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	TEST METHOD/REGULATION	RESULT
Migration of Certain Elements	EN71 Part 3:2019	Pass

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

Signed for and on behalf of  
Eurofins Product Testing Service (Shanghai) Co., Ltd



Lemon Zhang  
Assistant Lab Manager

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## SAMPLE PHOTO



**EFSH20031079-CG-01**

\*\*\*TO BE CONTINUED\*\*\*

**COMPONENT LIST**

Component No.	Component
1	100% SOLIDOS/ NEW FORMULA BTR - MUESTRA

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Migration of Certain Elements

Test Request: Migration of certain elements as specified in European Standard on Safety of Toys EN71 Part 3:2019

Test Method: General elements, with reference to EN 71 Part 3:2019, analysis was performed by ICP-MS;  
 Extractable Chromium (VI), with reference to EN 71 Part 3:2019, analysis was performed by IC-ICP-MS;  
 Extractable organic tin, with reference to EN 71 Part 3:2019, analysis was performed by GC-MS.

Test Item(s):	Unit	Result
		1
Category Type		III
Extractable Lead (Pb)	mg/kg	ND
Extractable Antimony (Sb)	mg/kg	ND
Extractable Arsenic (As)	mg/kg	ND
Extractable Barium (Ba)	mg/kg	250
Extractable Cadmium (Cd)	mg/kg	ND
Extractable Mercury (Hg)	mg/kg	ND
Extractable Selenium (Se)	mg/kg	ND
Extractable Boron (B)	mg/kg	ND
Extractable Cobalt (Co)	mg/kg	ND
Extractable Manganese (Mn)	mg/kg	ND
Extractable Strontium (Sr)	mg/kg	ND
Extractable Zinc (Zn)	mg/kg	ND
Extractable Copper (Cu)	mg/kg	ND
Extractable Aluminum (Al)	mg/kg	ND
Extractable Nickel (Ni)	mg/kg	ND
Extractable Tin (Sn)	mg/kg	ND
Extractable Organic Tin <sup>#1</sup>	mg/kg	ND
Extractable Chromium <sup>#2</sup>	mg/kg	ND
Extractable Chromium (III) (Cr III) <sup>#3</sup>	mg/kg	-
Extractable Chromium (VI) (Cr VI)	mg/kg	-

**Note:**

- #1 - Result of Organic Tin is calculated by assuming the extractable Tin content is wholly contributed from tributyltin (TBT) cation unless further specified.
- #2 - If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium(III) and Chromium(VI).
- #3 - In particular Chromium (III) is calculated by subtracting the Chromium (VI) concentration from the total chromium concentration.

**Remarks:**

mg/kg = milligram per kilogram  
 MDL = Method Detection Limit  
 ND = Not Detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

Limits –MDL per category type:

Test Item(s):	Unit	Limit	MDL	Limit	MDL	Limit	MDL
Category Type		I		II		III	
Extractable Lead (Pb)	mg/kg	2.0	1.0	0.5	0.2	23	10
Extractable Antimony (Sb)	mg/kg	45	5	11.3	1	560	10
Extractable Arsenic (As)	mg/kg	3.8	0.2	0.9	0.1	47	5
Extractable Barium (Ba)	mg/kg	1500	50	375	10	18750	50
Extractable Cadmium (Cd)	mg/kg	1.3	0.1	0.3	0.05	17	1
Extractable Mercury (Hg)	mg/kg	7.5	0.5	1.9	0.2	94	10
Extractable Selenium (Se)	mg/kg	37.5	2	9.4	1	460	10
Extractable Boron (B)	mg/kg	1200	50	300	10	15000	50
Extractable Cobalt (Co)	mg/kg	10.5	1	2.6	0.2	130	10
Extractable Manganese (Mn)	mg/kg	1200	50	300	10	15000	50
Extractable Strontium (Sr)	mg/kg	4500	50	1125	50	56000	50
Extractable Zinc (Zn)	mg/kg	3750	50	938	50	46000	50
Extractable Copper (Cu)	mg/kg	622.5	10	156	10	7700	50
Extractable Aluminum (Al)	mg/kg	5625	50	1406	50	70000	50
Extractable Nickel (Ni)	mg/kg	75	5	18.8	2	930	10
Extractable Tin (Sn)	mg/kg	15000	50	3750	50	180000	50
Extractable Organic Tin	mg/kg	0.9	0.2	0.2	0.2	12	0.2
Extractable Chromium	mg/kg	-	0.02	-	0.005	-	0.02
Extractable Chromium (III) (Cr III)	mg/kg	37.5	2	9.4	1	460	10
Extractable Chromium (VI) (Cr VI)	mg/kg	0.02	0.02	0.005	0.005	0.053	0.02

Category I: dry, brittle, powder-like or pliable toy material

Category II: liquid or sticky toy material

Category III: scrapped-off toy material

“-” = Not Regulated

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