



TOYTEST

Round 69 Sample Instructions

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The following instructions contain details which are essential for the proficiency tests being requested in this round. Please ensure these instructions are read and fully understood prior to commencing any analysis or assessment of the proficiency testing samples provided.

Sample	Description	Page
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Please note that the current version of any standard requested should be applied. Any standards that have been revised or withdrawn must not be used for the proficiency test materials provided.

Recording Results

- All results should be submitted using PORTAL
- Please go to <https://www.lgcpt.com/portal>
- Login using your Lab ID, username and password.

A PORTAL user guide can be downloaded from the help section.

If you need any help at all please do not hesitate to contact our support team using the details below or your local LGC representative.

Tel: +44(0)161 762 2500
Email: toytest@lgcpt.com



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Samples 1 & 7: Paper exercises

Sample 1: Application of EN71-1: 2014

Sample 7: Application of ASTM F963-16

The sample provided for this round is described as a **moving slide and steps toy** and for the purposes of the paper exercise is to be assumed to be suitable for children **36 months and over**.

Please classify each clause listed within PORTAL as either 'Relevant' or 'Not relevant' depending upon your assessment.

Assembly guide

1. Use 2 x 1.5V AA batteries (included)
2. Slide the printed card into the tabs located on the back of the stairway
3. Turn the power on/off with the switch located on the front of the toy



The following is a guide to the definitions of 'relevant' and 'not relevant' for the purposes of the TOYTEST proficiency test scheme:

Relevant/Not Relevant Definitions for EN71-1 & ASTM F963

Relevant

– A clause or test which must be considered when evaluating a specific type of toy.

For example, if a toy product being assessed against EN71-1 was cubed in shape then this product would contain edges that would require an assessment against section 8.11 to ensure they were safe and so section 4.7 'Edges' would be considered to be relevant.

Not relevant

– A clause which does not need to be considered due to the type of toy provided.

For example: if a test material is not a ride-on toy then an assessment to the clause covering ride-on toys would not be required and so that clause would be considered to be not relevant.

Visual assessments

If any clause states that a visual assessment of a test material is required to be performed (e.g. EN71-1 section 4.1 – Material) and further confirmatory testing is not required then these clauses should be considered to be 'relevant'.

If a visual assessment is performed in order to determine whether a further physical test is to be performed (e.g. a sharp edge or sharp point test) then the initial visual assessment should not determine whether the clause is relevant or not. In these situations the relevance of the clause would depend on whether the additional test was deemed necessary or not.



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In situations where an aspect of the test material provided may appear to 'obviously' pass (e.g. where a hinge gap may obviously be less than 1mm in all positions) then these clauses would still be considered to be relevant.

Important Information

All test materials are required to be assessed in the condition that they have originally been provided.

This is necessary as products cannot be guaranteed to react in a same manner during testing and so any clauses that may become relevant due to damage are not to be considered as part of this proficiency test.



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Sample 3. EN 71-3:2013+A1:2014

3R: Elemental Analysis of Spiked Fabric/Textile Material

A section of spiked fabric/textile material has been provided for assessment. Please test for migratable elements relevant to your routine laboratory procedures.

Report all results as specified in the current TOYTEST Scheme Description document. A copy of this document is available for download from the LGC Standards website at www.lgcpt.com

Important information

- 1) Ensure the **entire** piece of material supplied is taken for analysis.
- 2) When performing the final calculations **0.1g must** be used as the mass of fabric/textile taken.
- 3) **DO NOT** perform any calculations based upon the actual mass of fabric/textile supplied.

3S: Elemental Analysis of Standard Solution (Application of EN71-3)

Please analyse the solutions provided and report results for all elements routinely tested in your laboratory.

Important information

- Two solutions have been provided to cover all the elements listed in the current EN71-3 standard.
- Solution 1 contains quantifiable levels for all elements excluding chromium VI and organic tin, which are covered in solution 2.
- Each solution is to be tested separately. The two solutions **must not** be combined together before testing.

Report all results as specified in the current TOYTEST Scheme Description document. A copy of this document is available for download from the LGC Standards website at www.lgcpt.com



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Sample 8 - Azo Dyes

A fabric matrix containing various azo dyes has been provided for assessment.

Please assess the test sample provided for the azo dyes listed below using your usual laboratory method and report the concentrations detected via PORTAL expressed as mg/kg to 2 decimal places.

CAS	Compound	Alternate name
91-94-1	3,3'-dichlorobenzidine	
119-90-4	3,3'-dimethoxybenzidine	
101-77-9	4,4-diaminodiphenylmethane	
92-87-5	benzidine	
90-04-0	o-Anisidine	2-methoxyaniline
95-53-4	o-toluidine	2-methylaniline
60-09-3	p-Amino azo benzene	4-Amino azo benzene
106-47-8	p-chloroaniline	

Important information

1. Two sections of fabric have been supplied to allow the further analysis to be performed if required.
2. For each analysis please ensure the entire section of fabric (supplied) is taken for analysis.
3. Calculations for analysis are to be determined using a sample mass of **2.0g** – not the actual mass of fabric provided.
4. DO NOT perform any calculations based upon the actual weight of fabric supplied.



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Sample 9. Total Lead & Total Cadmium

Paint flakes have been provided for the analysis of Total Lead and Total Cadmium.

Important information

1. The material provided is to be tested as received. The test material is not to be dried prior to analysis.
2. Report your results expressed as mg/kg to 2 decimal places.

Please assess the test sample provided for the analysis of Total Lead and Total Cadmium using your usual laboratory method(s) and report the levels determined.



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Sample 11. Measurement Testing

The following materials have been provided for measurement testing:

Sample	Test material	Measurement	Regulation	Section	Test	Units
11A	Length of cord	Cord cross-sectional dimension*	EN71-1: 2014	5.4a	8.20	mm
11B	Length of cord	Cord cross-sectional dimension*	EN71-1: 2014	5.4a	8.20	mm
11C	Section of plastic sheeting	Plastic sheeting thickness*	EN71-1: 2014	4.3a	8.25.1	mm
		Plastic film thickness*	ASTM F963-16	4.12	8.21	mm
11D	Section of plastic sheeting	Plastic sheeting thickness*	EN71-1: 2014	4.3a	8.25.1	mm
		Plastic film thickness*	ASTM F963-16	4.12	8.21	mm

*Where multiple measurements are required to be performed participants are requested to report the average result calculated from the measurements taken.



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Sample 12. Kinetic Energy Testing

Please assess the toy gun and projectile that have been provided and report your results for the maximum kinetic energy determined.

Description	Clause	Test	Units	Decimal places
Maximum kinetic energy	EN71-1: 2014	8.24.1	J (Joules)	3
	ASTM F963-16	8.14.5		

Product Instructions

Prior to testing ensure the barrel attachment is slotted into the front of the gun.

The bullet is to be loaded via a magazine cartridge. The packaging details (as specified on the toy packaging) are as follows:

