

Test Report -Products



Report No.: 180279150a06 001 Page 1 of 4

Client:

Contact Information:

Identification/BatteryModel No(s):LR6

Sample obtaining method: Sending by customer

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2024-01-05

Testing Period: 2024-01-05 to 2024-01-12

Place of testing: Chemical laboratory Ningbo

Test Specification: Test result:

Customer's requirement:

Heavy Metal Test and labeling assessment for Battery - according to Articles 6 PASS
 & 13 of Regulation (EU) 2023/1542

Other information:

Country of Origin: China

For and on behalf of TÜV Rheinland/CCIC (Ningbo) Co., Ltd.

2024-01-15

Zoey Zhou / Assistant Manager

Date Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.

This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

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# **Products**



Test Report No.: 180279150a06 001

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Material List:

Item:

**Battery** 

LR6

Material No.	Material	Color	Location
A006	Battery	multi color	refer to photo



Test Report No.: 180279150a06 001

Page 3 of 4

1.Heavy Metal Test and labeling assessment for Battery - according to Articles 6(1) & 13 of Regulation (EU) 2023/1542

Test Method: Acid digestion, analyzed by ICP-OES/AAS

### Test result

Tost	Meterial	Test			Regulatory requirement		
Test No.	Material No.	Parameter	Unit	RL	Maximum Permissible Limit	Labelling Limit	Test Result
		Cadmium	%	0.001	Portable batteries: 0.002	0.002	< RL
		Lead	%	0.001	Portable batteries: 0.01#	0.004	< RL
		Mercury	%	0.0005	0.0005	n.a.	< RL
T001	A006	Labelling requirement of separate collection symbol and chemical symbol	2	racii	<b>(≆</b> )		Pass

Abbreviation: Pb = Lead

Cd = Cadmium
Hg = Mercury
n.a.= not applicable
RL = Reporting Limit
< = Less than

### Remark:

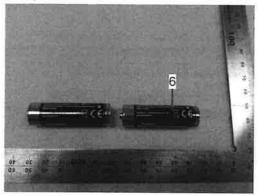
- # According to Article 6(1) and Annex I of the Regulation (EU) 2023/1542, the Lead restriction shall apply to portable batteries and portable zinc-air button cells from 18 August 2024 and 18 August 2028 respectively.
- \* According to Article 13(4) and 13(5) of the Regulation (EU) 2023/1542, all batteries shall be marked with the symbol indicating 'separate collection'; and all batteries containing more than 0.002% cadmium or more than 0.004% lead shall be marked with the chemical symbol for the metal concerned.



Test Report No.: 180279150a06 001

Page 4 of 4

# Sample Photo





Test Report -Products



Report No .:

180279150a09 001

Page 1 of 4

Client:

Contact Information:

Identification/ Model No(s): Battery LR03

Sample obtaining method:

Sending by customer

Condition at delivery:

Test item complete and undamaged.

Sample Receiving date:

2024-01-05

Testing Period:

2024-01-05 to 2024-01-12

Place of testing:

Chemical laboratory Ningbo

Test Specification:

Test result:

Customer's requirement:

Heavy Metal Test and labeling assessment for Battery - according to Articles 6 PASS
 (1) & 13 of Regulation (EU) 2023/1542

Other information:

Country of Origin: China

For and on behalf of TÜV Rheinland/CCIC (Ningbo) Co., Ltd.

2024-01-15

Zoey Zhou / Assistant Manager

Date

Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.

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# **Products**



Test Report No.: 180279150a09 001

Page 2 of 4

Material List:

Item:

Battery

LR03

Material No.	Material	Color	Location
A009	Battery	multi color	refer to photo



Test Report No.: 180279150a09 001

Page 3 of 4

# 1.Heavy Metal Test and labeling assessment for Battery - according to Articles 6(1) & 13 of Regulation (EU) 2023/1542

Test Method: Acid digestion, analyzed by ICP-OES/AAS

### Test result

T4	Matarial	Toot			Regulatory requirement		
Test No.	Material No.	Test Parameter	Unit	RL	Maximum Permissible Limit	Labelling Limit	Test Result
		Cadmium	%	0.001	Portable batteries: 0.002	0.002	< RL
		Lead	%	0.001	Portable batteries: 0.01#	0.004	< RL
		Mercury	%	0.0005	0.0005	n.a.	< RL
T001	A009	Labelling requirement of separate collection symbol and chemical symbol			S <del>TN</del>	-	Pass

Abbreviation: Pb = Lead

Cd = Cadmium Hg = Mercury n.a.= not applicable RL = Reporting Limit

< = Less than

### Remark:

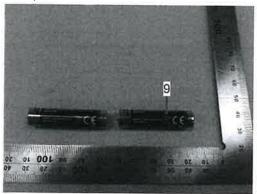
- # According to Article 6(1) and Annex I of the Regulation (EU) 2023/1542, the Lead restriction shall apply to portable batteries and portable zinc-air button cells from 18 August 2024 and 18 August 2028 respectively.
- \* According to Article 13(4) and 13(5) of the Regulation (EU) 2023/1542, all batteries shall be marked with the symbol indicating 'separate collection'; and all batteries containing more than 0.002% cadmium or more than 0.004% lead shall be marked with the chemical symbol for the metal concerned.



Test Report No.: 180279150a09 001

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# Sample Photo







No.: NGBEC23005295301

**Date:** Nov 15, 2023

Page 1 of 3

Client Name:

Client Address:

Sample Name:

LR44 - BOTTONS

The above sample(s) and information were provided by the client.

SGS Job No.:

NBP23-003808

Sample Receiving Date:

Nov 09, 2023

**Testing Period:** 

Nov 09, 2023 ~ Nov 15, 2023

Test Requested:

Select test(s) as requested by the client.

Test Method(s):

Please refer to next page(s).

Test Result(s):

Please refer to next page(s).

Test Requirement	Conclusion
Annex I of Regulation (EU) 2023/1542– Heavy Metals Content in batteries and	Pass
waste batteries	1 400

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

Kell Li

Approved Signatory

Lew Li





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No.: NGBEC23005295301

**Date:** Nov 15, 2023

Page 2 of 3

### Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	NGB23-0052953-0001.C001	Battery

### Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

# Annex I of Regulation (EU) 2023/1542- Heavy Metals Content in batteries and waste batteries

Test Method: SGS In House Method, analysis was performed by ICP-OES or AAS.

Test Item(s)	Limit	Unit(s)	MDL	A1
Lead(Pb)	0.01	%	0.0010	ND
Cadmium(Cd)	0.002	%	0.0010	ND
Mercury(Hg)	0.0005	%	0.0001	ND
Conclusion	<del></del>			Pass

#### Notes:

Notes.	
Column 1 Designation of the substance or group of substances	Column 2 Conditions of restriction
1. Mercury CAS No 7439-97-6 EC No 231-106-7 and its compounds	Batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0,0005 % of mercury (expressed as mercury metal) by weight
2. Cadmium CAS No 7440-43-9 EC No 231-152-8 and its compounds	Portable batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0,002 % of cadmium (expressed as cadmium metal) by weight
3. Lead CAS No 7439-92-1 EC No 231-100-4 and its compounds	1. From 18 August 2024, portable batteries, whether or not incorporated into appliances, shall not contain more than 0,01 % of lead (expressed as lead metal) by weight.  2. The restriction set out in point 1 shall not apply to portable zinc-air button cells until 18 August 2028.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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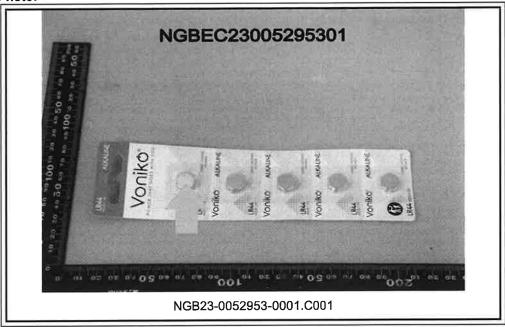


No.: NGBEC23005295301

**Date:** Nov 15, 2023

Page 3 of 3

Sample Photo:



SGS authenticate the photo on original report only \*\*\* End of Report \*\*\*



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Test Report -**Products** 



Report No.:

180279150b2 001

Page 1 of 4

Client:

Contact Information:

Identification/

Battery

Model No(s):

R03PVC

Sample obtaining method:

Sending by customer

Condition at delivery:

Test item complete and undamaged.

Sample Receiving date:

2024-01-26

Testing Period:

2024-01-26 to 2024-01-29

Place of testing:

Chemical laboratory Ningbo

Test Specification:

Test result:

Customer's requirement:

1. Heavy Metal Test and labeling assessment for Battery - according to Articles 6 PASS (1) & 13 of Regulation (EU) 2023/1542

For and on behalf of TÜV Rheinland/CCIC (Ningbo) Co., Ltd.

2024-01-30

Zoey Zhou / Assistant Manager

Date

Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.

This lest report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

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**Test Report No.: 180279150b2 001** Page 2 of 4

Material List:

Item: Battery

R03PVC

Material No.	Material	Color	Location	
B002	Battery	multi color	refer to photo	



Test Report No.: 180279150b2 001

Page 3 of 4

1.Heavy Metal Test and labeling assessment for Battery - according to Articles 6(1) & 13 of Regulation (EU) 2023/1542

Test Method: Acid digestion, analyzed by ICP-OES/AAS

### **Test result**

Tast	Motorial	Toot			Regulatory requirement		
Test No.	Material No.	Test Parameter	Unit	RL	Maximum Permissible Limit	Labelling Limit	Test Result
		Cadmium	%	0.001	Portable batteries: 0.002	0.002	< RL
		Lead	%	0.001	Portable batteries: 0.01#	0.004	< RL
		Mercury	%	0.0005	0.0005	n.a.	< RL
T001	B002	Labelling requirement of separate collection symbol and chemical symbol	ж		(a)		Pass

Abbreviation: Pb = Lead

Cd = Cadmium
Hg = Mercury
n.a.= not applicable
RL = Reporting Limit
< = Less than

### Remark:

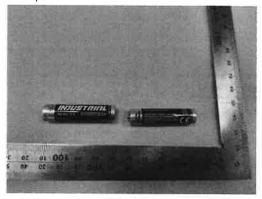
- # According to Article 6(1) and Annex I of the Regulation (EU) 2023/1542, the Lead restriction shall apply to portable batteries and portable zinc-air button cells from 18 August 2024 and 18 August 2028 respectively.
- \* According to Article 13(4) and 13(5) of the Regulation (EU) 2023/1542, all batteries shall be marked with the symbol indicating 'separate collection'; and all batteries containing more than 0.002% cadmium or more than 0.004% lead shall be marked with the chemical symbol for the metal concerned.



Test Report No.: 180279150b2 001

Page 4 of 4

# Sample Photo





Test Report -**Products** 



Report No .:

180279150b1 001

Page 1 of 4

Client:

Contact Information:

Identification/

Battery

Model No(s):

R6PVC

Sample obtaining method:

Sending by customer

Condition at delivery:

Test item complete and undamaged.

Sample Receiving date:

2024-01-26

Testing Period:

2024-01-26 to 2024-01-29

Place of testing:

Chemical laboratory Ningbo

Test Specification:

Test result:

Customer's requirement:

1. Heavy Metal Test and labeling assessment for Battery - according to Articles 6 PASS (1) & 13 of Regulation (EU) 2023/1542

For and on behalf of TÜV Rheinland/CCIC (Ningbo) Co., Ltd.

2024-01-30

Zoey Zhou / Assistant Manager

Date

Name/Position

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Test Report No.: 180279150b1 001

Page 2 of 4

**Material List:** 

Item:

Battery

R6PVC

Material No.	Material	Color	Location	
B001	Battery	multi color	refer to photo	



Test Report No.: 180279150b1 001

Page 3 of 4

# 1. Heavy Metal Test and labeling assessment for Battery - according to Articles 6(1) & 13 of Regulation (EU) 2023/1542

Test Method: Acid digestion, analyzed by ICP-OES/AAS

### **Test result**

Toot	Material	Test			Regulatory requirement		
Test No.	No.	Parameter	Unit	RL	Maximum Permissible Limit	Labelling Limit	Test Result
		Cadmium	%	0.001	Portable batteries: 0.002	0.002	< RL
		Lead	%	0.001	Portable batteries: 0.01#	0.004	< RL
		Mercury	%	0.0005	0.0005	n.a.	< RL
T001	B001	Labelling requirement of separate collection symbol and chemical symbol	at.	S <del>o</del>		0.2	Pass

Abbreviation: Pb = Lead

Cd = Cadmium Hg = Mercury n.a.= not applicable RL = Reporting Limit < = Less than

# Remark:

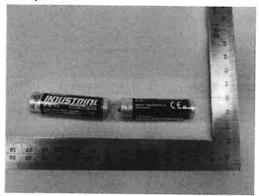
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- According to Article 13(4) and 13(5) of the Regulation (EU) 2023/1542, all batteries shall be marked with the symbol indicating 'separate collection'; and all batteries containing more than 0.002% cadmium or more than 0.004% lead shall be marked with the chemical symbol for the metal concerned.



Test Report No.: 180279150b1 001

Page 4 of 4

# Sample Photo







No.: NGBEC23005295302

**Date:** Nov 15, 2023

Page 1 of 3

Client Name:

Client Address:

Sample Name:

LR14

The above sample(s) and information were provided by the client.

SGS Job No.:

NBP23-003808

Sample Receiving Date:

Nov 09, 2023

Testing Period:

Nov 09, 2023 ~ Nov 15, 2023

Test Requested:

Select test(s) as requested by the client.

Test Method(s): Test Result(s):

Please refer to next page(s). Please refer to next page(s).

Test Requirement	Conclusion
Annex I of Regulation (EU) 2023/1542- Heavy Metals Content in batteries and	Pass
waste batteries	

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

Kell Li

Approved Signatory

Ken Li





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No.: NGBEC23005295302

**Date:** Nov 15, 2023

Page 2 of 3

## Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	В	NGB23-0052953-0002	Battery

### Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

# Annex I of Regulation (EU) 2023/1542- Heavy Metals Content in batteries and waste batteries

Test Method: SGS In House Method, analysis was performed by ICP-OES or AAS.

Conclusion	onclusion					
Mercury(Hg)	0.0005	%	0.0001	ND		
Cadmium(Cd)	0.002	%	0.0010	ND		
Lead(Pb)	0.01	%	0.0010	ND		
Test Item(s)	Limit	Unit(s)	MDL	В		

### Notes:

1101001	
Column 1 Designation of the substance or group of substances	Column 2 Conditions of restriction
1. Mercury CAS No 7439-97-6 EC No 231-106-7 and its compounds	Batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0,0005 % of mercury (expressed as mercury metal) by weight
2. Cadmium CAS No 7440-43-9 EC No 231-152-8 and its compounds	Portable batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0,002 % of cadmium (expressed as cadmium metal) by weight
3. Lead CAS No 7439-92-1 EC No 231-100-4 and its compounds	1. From 18 August 2024, portable batteries, whether or not incorporated into appliances, shall not contain more than 0,01 % of lead (expressed as lead metal) by weight.  2. The restriction set out in point 1 shall not apply to portable zinc-air button cells until 18 August 2028.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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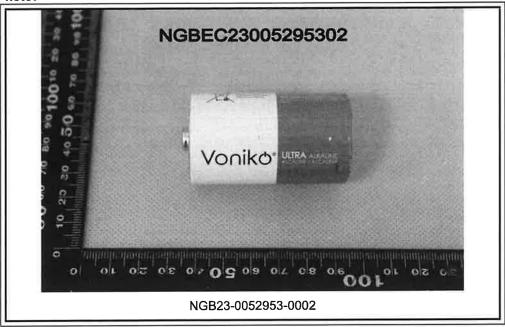


No.: NGBEC23005295302

**Date:** Nov 15, 2023

Page 3 of 3

Sample Photo:



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**Test Report** Page 1 of 3 No.: NGBEC23005295303 **Date:** Nov 15, 2023

Client Name:

Client Address: :

LR20 Sample Name:

The above sample(s) and information were provided by the client.

Sample Receiving Date:

NBP23-003808 Nov 09, 2023

**Testing Period:** 

SGS Job No.:

Nov 09, 2023 ~ Nov 15, 2023

Test Requested:

Select test(s) as requested by the client.

Test Method(s):

Please refer to next page(s).

Please refer to next page(s). Test Result(s): **Test Requirement** 

Test Requirement	Conclusion
Annex I of Regulation (EU) 2023/1542- Heavy Metals Content in batteries and	Pass
waste batteries	

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

中国・浙江・宁波高新区凌云路1177号

Kell Li

Approved Signatory

Kew Li





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**Test Report** No.: NGBEC23005295303 **Date**: Nov 15, 2023 Page 2 of 3

# Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	С	NGB23-0052953-0003	Battery

### Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

# Annex I of Regulation (EU) 2023/1542- Heavy Metals Content in batteries and waste batteries

Test Method: SGS In House Method, analysis was performed by ICP-OES or AAS.

Test Item(s)	Limit	Unit(s)	MDL	С
Lead(Pb)	0.01	%	0.0010	ND
Cadmium(Cd)	0.002	%	0.0010	ND
Mercury(Hg)	0.0005	%	0.0001	ND
Conclusion				Pass

### Notes:

Column 1 Designation of the substance or group of substances	Column 2 Conditions of restriction
1. Mercury CAS No 7439-97-6 EC No 231-106-7 and its compounds	Batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0,0005 % of mercury (expressed as mercury metal) by weight
2. Cadmium CAS No 7440-43-9 EC No 231-152-8 and its compounds	Portable batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0,002 % of cadmium (expressed as cadmium metal) by weight
3. Lead CAS No 7439-92-1 EC No 231-100-4 and its compounds	1. From 18 August 2024, portable batteries, whether or not incorporated into appliances, shall not contain more than 0,01 % of lead (expressed as lead metal) by weight.  2. The restriction set out in point 1 shall not apply to portable zinc-air button cells until 18 August 2028.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.



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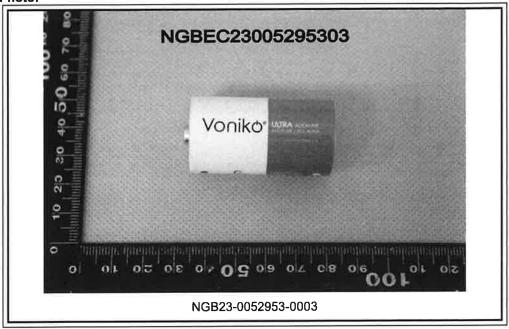
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**Test Report** No.: NGBEC23005295303 **Date**: Nov 15, 2023 Page 3 of 3

Sample Photo:



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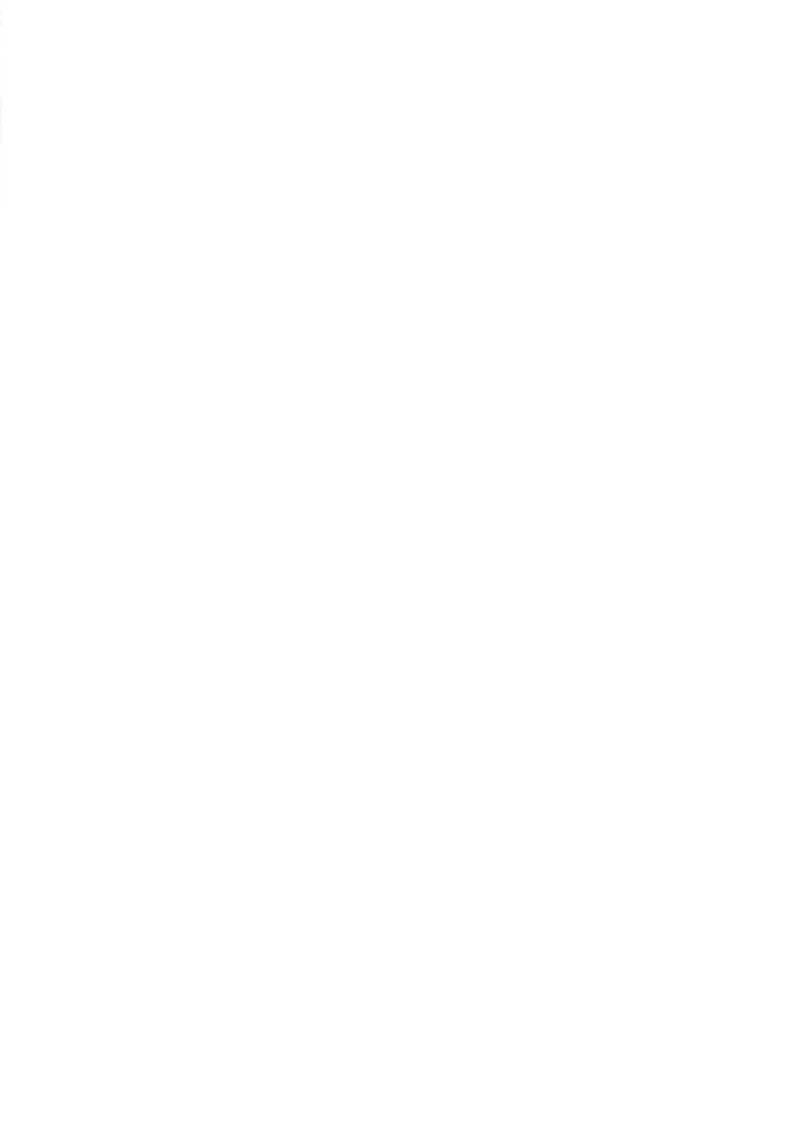


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Test Report -Products



Report No.:

180279150a36 001

Page 1 of 4

Client:

Contact Information:

Identification/

Battery

Model No(s):

CR2032

Sample obtaining method:

Sending by customer

Condition at delivery:

Test item complete and undamaged.

Sample Receiving date:

2024-01-05

Testing Period:

2024-01-05 to 2024-01-15

Place of testing:

Chemical laboratory Ningbo

Test Specification:

Test result:

Customer's requirement:

Heavy Metal Test and labeling assessment for Battery - according to Articles 6 PASS
 & 13 of Regulation (EU) 2023/1542

Other information:

Country of Origin: China

For and on behalf of TÜV Rheinland/CCIC (Ningbo) Co., Ltd.

2024-01-16

Zoey Zhou / Assistant Manager

Date

Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.

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uses in a milite to early any salety mark on milit or military products.

"Decision Rule" document announced in our website (https://www.tuv.com/landingpage/en/qm-gcn/) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

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# Products



Test Report No.: 180279150a36 001

Page 2 of 4

Material List:

Item:

Battery

CR2032

Material No. Material		Color	Location
A036	Battery	silver	refer to photo



Test Report No.: 180279150a36 001

Page 3 of 4

1.Heavy Metal Test and labeling assessment for Battery - according to Articles 6(1) & 13 of Regulation (EU) 2023/1542

Test Method: Acid digestion, analyzed by ICP-OES/AAS

### Test result

Tast	Test Material Te				Regulatory red	uirement	
Test No.	No.	Test Parameter	Unit	t RL	Maximum Permissible Limit	Labelling Limit	Test Result
		Cadmium	%	0.001	Portable batteries: 0.002	0.002	< RL
		Lead	%	0.001	Portable batteries: 0.01#	0.004	< RL
		Mercury	%	0.0005	0.0005	n.a.	< RL
T001	A036	Labelling requirement of separate collection symbol and chemical symbol	16.	<i>ज</i> ा	<del>5</del>	(3)	Pass(*1)

**Abbreviation:** Pb = Lead

Cd = Cadmium
Hg = Mercury
n.a.= not applicable
RL = Reporting Limit
< = Less than

### Remark:

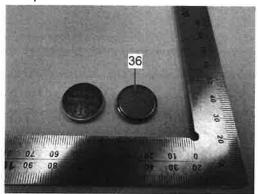
- # According to Article 6(1) and Annex I of the Regulation (EU) 2023/1542, the Lead restriction shall apply to portable batteries and portable zinc-air button cells from 18 August 2024 and 18 August 2028 respectively.
- \* According to Article 13(4) and 13(5) of the Regulation (EU) 2023/1542, all batteries shall be marked with the symbol indicating 'separate collection'; and all batteries containing more than 0.002% cadmium or more than 0.004% lead shall be marked with the chemical symbol for the metal concerned.
- \*1 Although no final product/packaging has been received, the manufacturer/trader/applicant has confirmed that the above information marked (\*) will be shown on the battery, accumulator or battery pack / packaging of the battery, accumulator or battery pack.



Test Report No.: 180279150a36 001

Page 4 of 4

# Sample Photo





Test Report -Products



Report No .:

180279150a29 001

Page 1 of 4

Client:

Contact Information:

Identification/

Battery

Model No(s):

HR03

Sample obtaining method:

Sending by customer

Condition at delivery:

Test item complete and undamaged.

Sample Receiving date:

2024-01-05

Testing Period:

2024-01-05 to 2024-01-15

Place of testing:

Chemical laboratory Ningbo

Test Specification:

Test result:

Customer's requirement:

Heavy Metal Test and labeling assessment for Battery - according to Articles 6 PASS
 & 13 of Regulation (EU) 2023/1542

Other information:

Country of Origin: China

For and on behalf of TÜV Rheinland/CCIC (Ningbo) Co., Ltd.

2024-01-16

Zoey Zhou / Assistant Manager

Date

Name/Position

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Test Report No.: 180279150a29 001

Page 2 of 4

**Material List:** 

Item:

Battery

HR03

Material No. Material		Color	Location
A029	Battery	silver	refer to photo



Test Report No.: 180279150a29 001

Page 3 of 4

1.Heavy Metal Test and labeling assessment for Battery - according to Articles 6(1) & 13 of Regulation (EU) 2023/1542

Test Method: Acid digestion, analyzed by ICP-OES/AAS

### **Test result**

Toot	Material	terial Test	Toot	Regulatory re	Regulatory red	uirement	
Test No.	No.	Parameter	Unit	RL	Maximum Permissible Limit	Labelling Limit	Test Result
		Cadmium	%	0.001	Portable batteries: 0.002	0.002	< RL
		Lead	%	0.001	Portable batteries: 0.01#	0.004	< RL
		Mercury	%	0.0005	0.0005	n.a.	< RL
T001	A029	Labelling requirement of separate collection symbol and chemical symbol	T.	*	, <del>-</del>	-	Pass

Abbreviation: Pb = Lead

Cd = Cadmium
Hg = Mercury
n.a.= not applicable
RL = Reporting Limit
< = Less than

# Remark:

- # According to Article 6(1) and Annex I of the Regulation (EU) 2023/1542, the Lead restriction shall apply to portable batteries and portable zinc-air button cells from 18 August 2024 and 18 August 2028 respectively.
- \* According to Article 13(4) and 13(5) of the Regulation (EU) 2023/1542, all batteries shall be marked with the symbol indicating 'separate collection'; and all batteries containing more than 0.002% cadmium or more than 0.004% lead shall be marked with the chemical symbol for the metal concerned.



Test Report No.: 180279150a29 001

Page 4 of 4

# Sample Photo

