

Report No.: 180279150a06 001

Page 1 of 4

Client:

Contact Information:

Identification/ Model No(s): Battery
 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:

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

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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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

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory requirement		Test Result
					Maximum Permissible Limit	Labelling Limit	
T001	A006	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
		Labelling requirement of separate collection symbol and chemical symbol	-	-	-	-	-

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

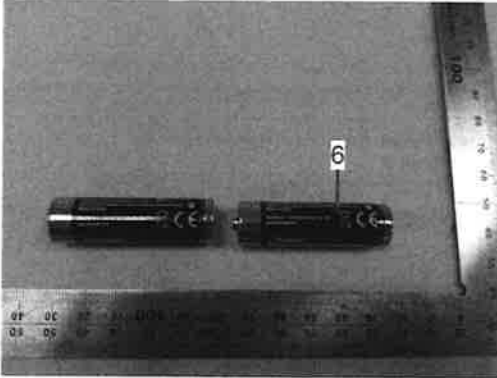
Remark:

- # 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



- END -

**Test Report -
Products**



Report No.: 180279150a09 001

Page 1 of 4

Client:

Contact Information:

Identification/ Battery
Model No(s): 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:

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

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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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

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory requirement		Test Result
					Maximum Permissible Limit	Labelling Limit	
T001	A009	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
		Labelling requirement of separate collection symbol and chemical symbol	-	-	-	-	-

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

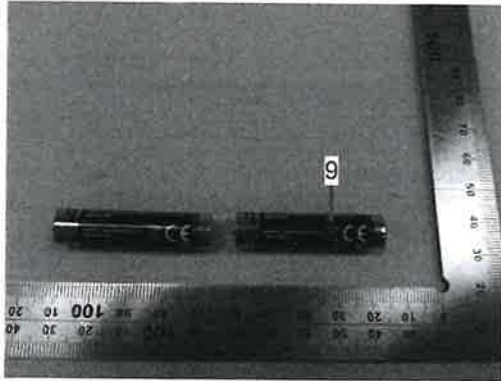
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- * According to Article 13(4) and 13(5) of the Regulation (EU) 2023/1542, all batteries shall be marked with the symbol indicating 'separate collection'; and all batteries containing more than 0.002% cadmium or more than 0.004% lead shall be marked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

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Sample Photo



- END -

Accurate



Test Report

No.: NGBEC23005295301

Date: Nov 15, 2023

Page 1 of 3

Client Name:

Client Address:

Sample Name: LR44 - BITONS

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 waste batteries	Pass

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

Kell Li

Kell_Li
 Approved Signatory

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 Ningbo Branch Chemical Laboratory

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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				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.

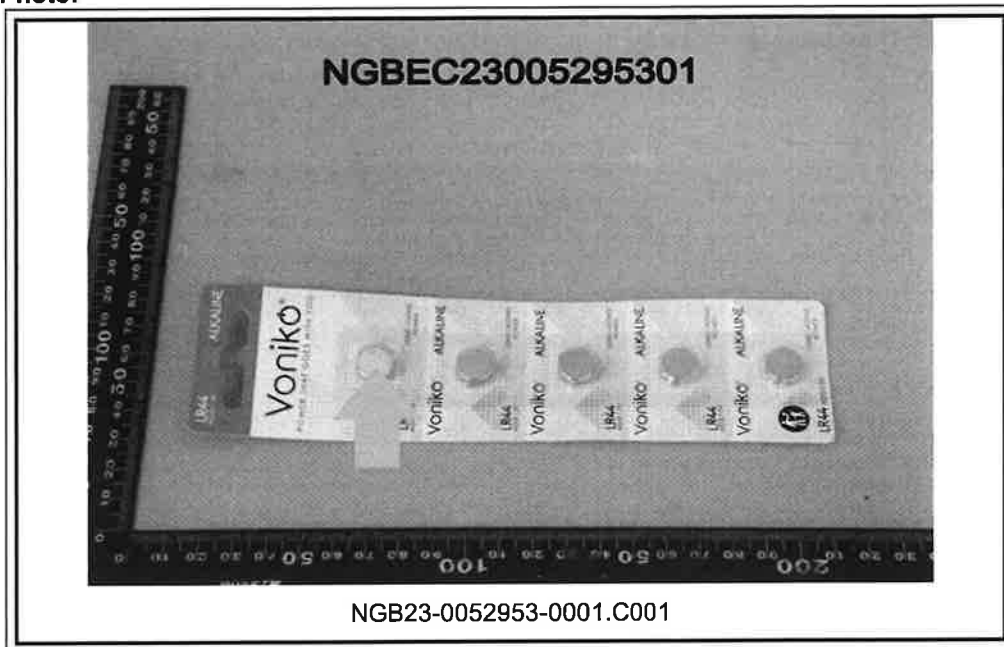
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Sample Photo:



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ALCALINES

**Test Report -
Products**



Report No.: 180279150b2 001

Page 1 of 4

Client:

Contact Information:

**Identification/
Model No(s):** Battery
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 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. "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.

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

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory requirement		Test Result
					Maximum Permissible Limit	Labelling Limit	
T001	B002	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
		Labelling requirement of separate collection symbol and chemical symbol	-	-	-	-	-

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

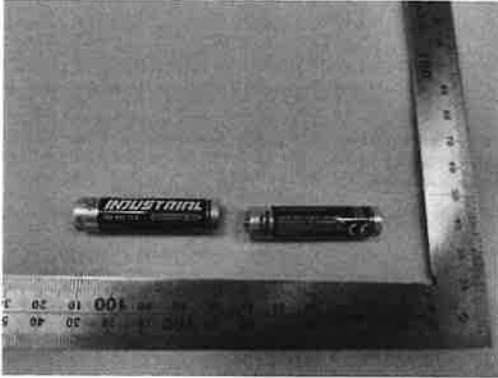
Remark:

- # 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



- END -

Report No.: 180279150b1 001

Page 1 of 4

Client:

Contact Information:

Identification/
Model No(s): Battery
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

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

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory requirement		Test Result
					Maximum Permissible Limit	Labelling Limit	
T001	B001	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
		Labelling requirement of separate collection symbol and chemical symbol	-	-	-	-	-

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.: 180279150b1 001

Page 4 of 4

Sample Photo



- END -



Test Report

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): 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 waste batteries	Pass

Signed for and on behalf of
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Kell Li

Kell_Li
 Approved Signatory

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	B	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.

Test Item(s)	Limit	Unit(s)	MDL	B
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.

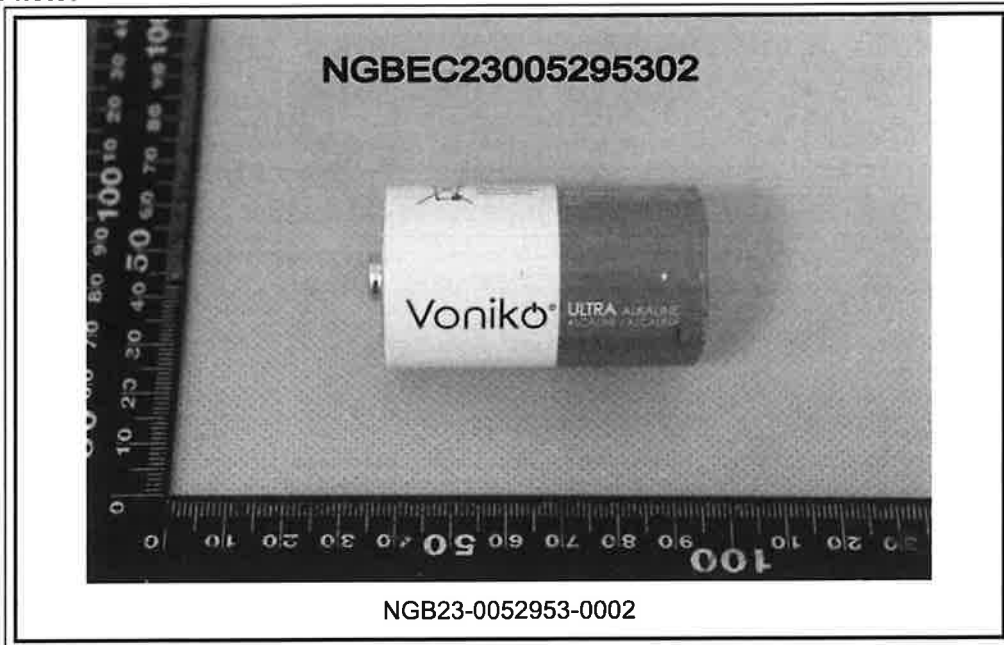
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Test Report

No.: NGBEC23005295303

Date: Nov 15, 2023

Page 1 of 3

Client Name:

Client Address:

Sample Name:

LR20

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 waste batteries	Pass

Signed for and on behalf of
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Kell Li

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 中国·浙江·宁波高新区凌云路1177号 邮编: 315040 t HL (86-574) 89070271 t ML (86-574) 89070242 sgs.china@sgs.com

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	C	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	C
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.

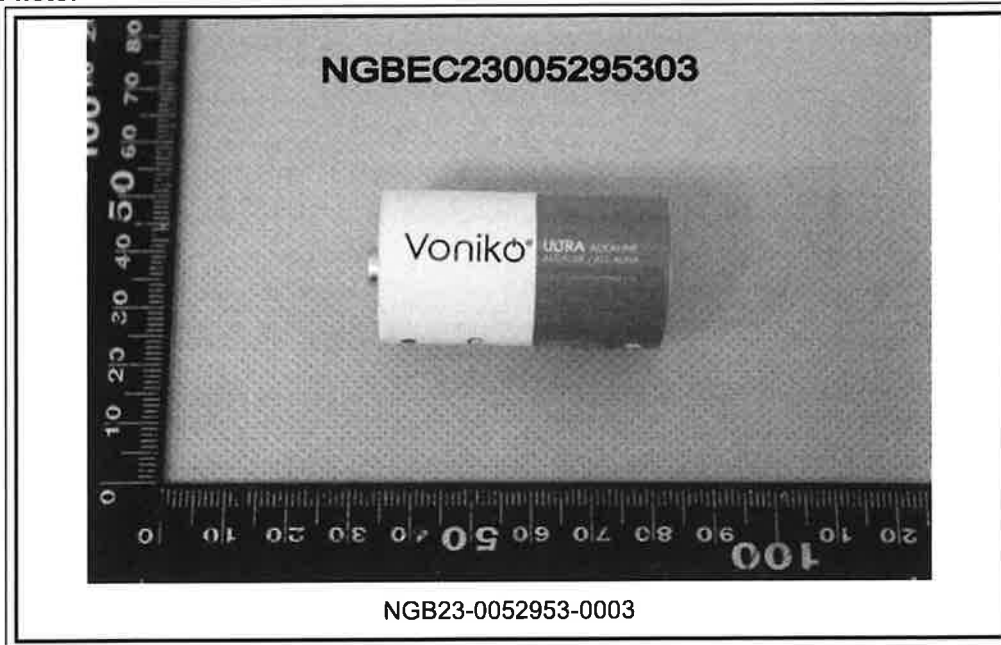
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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Sample Photo:



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



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Report No.: 180279150a36 001

Page 1 of 4

Client:

Contact Information:

Identification/ Model No(s): Battery
 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:

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

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.
 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.
 "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.*

Test Report No.: 180279150a36 001	Page 2 of 4
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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

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory requirement		Test Result
					Maximum Permissible Limit	Labelling Limit	
T001	A036	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
		Labelling requirement of separate collection symbol and chemical symbol	-	-	-	-	-

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

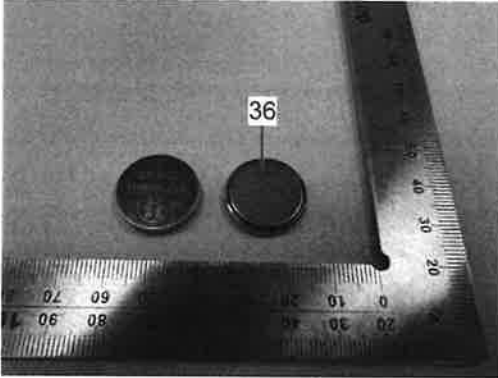
Remark:

- # 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

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Sample Photo



- END -

Test Report - Products



Report No.: 180279150a29 001

Page 1 of 4

Client:

Contact Information:

Identification/ Model No(s): Battery 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:

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

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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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

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory requirement		Test Result
					Maximum Permissible Limit	Labelling Limit	
T001	A029	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
		Labelling requirement of separate collection symbol and chemical symbol	-	-	-	-	-

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

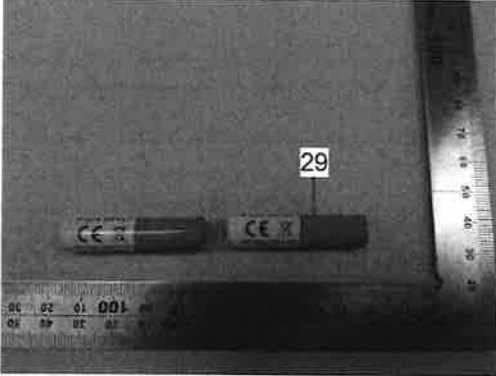
Remark:

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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.: 180279150a29 001

Page 4 of 4

Sample Photo



- END -