



TEST REPORT

LAB NO. : (9323)346-0880
DATE : Dec 27, 2023
PAGE : 1 OF 5

APPLICANT : **DONGGUANVICTORY BATTERY INDUSTRIES CO.,LTD.**
ZHEN HUA IUDUSTRIES DISTRICT, QI SHI DONGGUAN,
GUANGDONG PEOPLE'S REPUBLIC OF CHINA.

CONTACT PERSON : /

DATE OF SUBMISSION : Dec 12, 2023

TEST PERIOD : Dec 12, 2023 to Dec 15, 2023

SAMPLE DESCRIPTION : **ALKALINE BUTTON CELL**
Client Reference:LR44G, LR44GH, LR1130G, LR1130GH, LR41G,
LR41GH, LR626G, LR626GH, LR932G, LR732G,LR43G, LR43GH,
LR621G,LR621GH, LR1120GH,LR1120G
LR920G,LR920GH,LR926G,LR926GH,LR936G,LR936GH,
LR616GH, LR521GH,LR721G, LR721GH,LR726G,
LR726GH,625G,625GH,LR754G,LR754GH,377A%,toshibaLR44G
H,toshibaLR43GH,toshibaLR41GH,toshibaLR1130,
maxellLR44,maxellLR43,maxellLR41,maxellLR1130,FDKLR41,FD
KLR43,FDKLR44,FDKLR1130,MitsubishiLR41,MitsubishiLR44,Mi
tsubishiLR43,MitsubishiLR1130,DuracellLR44,DuracellLR43,Durac
ellLR41,DuracellLR1130,PanasonicLR44,PanasonicLR43,Panasonic
LR41,PanasonicLR1130.

Color: /

Style no. / Model no.: LR44GH

P.O. No.: /

Country of Origin: /

Country of Destination: /

MANUFACTURER : /

RW

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LAB NO. : (9323)346-0880
DATE : Dec 27, 2023
PAGE : 2 OF 5

SUMMARY OF TEST RESULTS

| TEST REQUESTED | CONCLUSION | REMARK |
|---|------------|--------|
| Heavy Metals Content in Batteries and Accumulators and Waste Batteries and Accumulators – Portable Batteries or Accumulators Except Button Cells – Regulation (EU) 2023/1542 of the European Parliament and of the Council of 12 July 2023 concerning batteries and waste batteries, amending Directive 2008/98/EC and Regulation (EU) 2019/1020 and repealing Directive 2006/66/EC (Text with EEA relevance) | PASS | |
| Total Mercury Content in Alkaline Manganese and Zinc Carbon Batteries - United States Public Law 104-142, Title II Mercury-Containing Battery Management Act, Section 204 | PASS | |

SAMPLE DESCRIPTION ASSIGNED BY LABORATORY

| ITEM | ITEM DESCRIPTION |
|------|------------------|
| 1 | Silvery battery |

BUREAU VERITAS CONSUMER PRODUCTS SERVICES (GUANGZHOU) CO., LTD

KENNY WANG
OPERATION MANAGER



REMARK

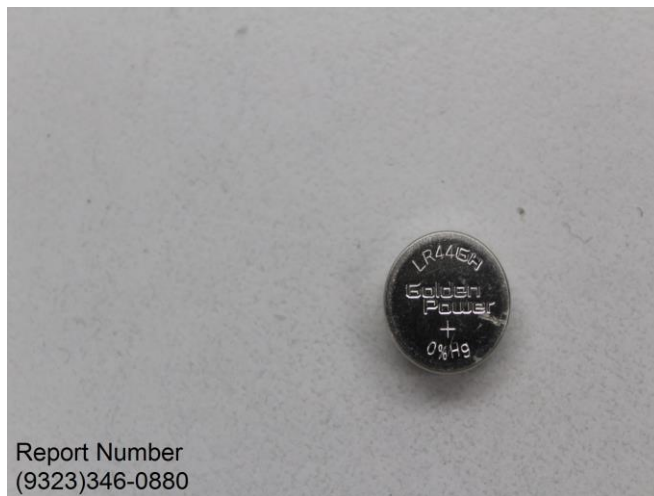
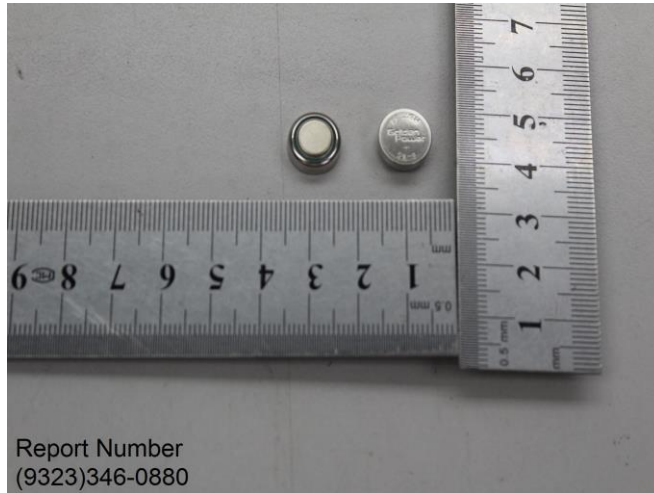
If there are questions or concerns on this report, please contact the following persons:

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LAB NO. : (9323)346-0880
DATE : Dec 27, 2023
PAGE : 3 OF 5

Photo of the Submitted Sample



TEST RESULT

Heavy Metals Content in Batteries and Accumulators and Waste Batteries and Accumulators – Portable Batteries or Accumulators Except Button Cells – Regulation (EU) 2023/1542 of the European Parliament and of the Council of 12 July 2023 concerning batteries and waste batteries, amending Directive 2008/98/EC and Regulation (EU) 2019/1020 and repealing Directive 2006/66/EC (Text with EEA relevance)

| Parameter | Unit | Result | Maximum Allowable Limit |
|--------------------|-------|-------------|--|
| | | 1 | |
| Total Lead (Pb) | % w/w | < 0.001 | 0.010 % |
| Total Cadmium (Cd) | % w/w | < 0.001 | 0.002 % |
| Total Mercury (Hg) | % w/w | < 0.0001 | 0.0005 % |
| Conclusion | - | PASS | Please see comment for proper marking of the battery |

Note: % w/w = percentage weight by weight
 “<” = less than
 “>” = more than

Method: Sample was digested with acid mixture and then analyzed by Inductively Coupled Argon Plasma Spectrometer.

Remark: Labelling review is not performed was specified by client.

Comment:

1. Marking requirement:
 According to 2006/66/EC, all batteries, accumulators and battery packs shall be appropriately marked with the symbol as below:



Covered area on battery, accumulator or battery pack

- Cylindrical cells: 1.5 % of surface area (maximum 5 × 5 cm)
- Others: 3 % of surface area of the largest side (maximum 5 × 5 cm)
- When the size of the battery, accumulator or battery pack is such that the symbol would be smaller than 0.5 × 0.5 cm, a symbol at least 1 × 1 cm shall be printed on the packaging.

Symbols shall be printed visibly, legibly and indelibly

2. When the sample consists lead exceeding 0.004%, the product is to be labeled with heavy metal content with the requirements as below:
 - Mark with the chemical symbol for the metal concerned: Pb
 - Print beneath the symbol
 - Cover an area of at least ¼ of the size of the symbol
3. Limit for cadmium content is currently exempted for portable batteries and accumulators intended for use in cordless power tools. But according to Directive 2013/56/EU, starting from 2016 Dec 31th, the limit of cadmium will be lowered to 0.002%.



LAB NO. : (9323)346-0880
DATE : Dec 27, 2023
PAGE : 5 OF 5

TEST RESULT

Total Mercury Content in Alkaline Manganese and Zinc Carbon Batteries - United States Public Law 104-142, Title II Mercury-Containing Battery Management Act, Section 204

| Limit : | Not be intentionally introduced (Not detectable) | |
|--------------------|--|--------|
| - | Unit | Result |
| Test Item(s) | - | 1 |
| Parameter | - | - |
| Total Mercury (Hg) | mg/kg | ND |
| Conclusion | - | PASS |

Note / Key :

ND = Not detected “>” = Greater than
mg/kg = milligram(s) per kilogram = ppm = part(s) per million
Detection Limit (mg/kg) : 4

END