

Test Report No. CANEC2003570103 Date: 29 Mar 2020 Page 1 of 6

The following sample(s) was/were submitted and identified on behalf of the clients as: Alkaline Button Cell

SGS Job No. : CP20-010490 - GZ

Model No. : LR44H

Client Ref. Info.: Applicant declares, the materials and weight percentage of below models are

exactly same as the tested model:

AG13 (LR44, LR44H, LR1154,

LR1154H), AG0 (LR521, LR521H, LR63, LR63H), AG1 (LR621, LR621H, LR60, LR60H), AG2 (LR726, LR726H, LR59, LR59H), AG3 (LR41, LR41H, LR736, LR736H), AG4 (LR626, LR626H, LR66, LR66H), AG5 (LR754, LR754H, LR48, LR48H), AG6 (LR920, LR920H, LR69, LR69H), AG7 (LR927, LR927H, LR57, LR57H), AG8 (LR1120, LR1120H, LR55, LR55H), AG9 (LR936, LR936H, LR45, LR45H), AG10 (LR1130, LR1130H, LR54, LR54H), AG11 (LR721, LR721H, LR58, LR58H), AG12 (LR1142, LR1142H, LR43, LR43H), 23A (8LR932,

Manufacturer:

Date of Sample Received: 24 Mar 2020

Testing Period: 24 Mar 2020 - 28 Mar 2020

Test Requested: Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion: The submitted battery sample does not exceed the limit mentioned in European

8LR932H), 27A (86R732, 8LR732H, 8LR632, 8LR632H)

Directive 2006/66/EC and its Article 4 amendment of Directive 2013/56/EU.

When tested as specified by the client, the tested parameters comply with the

Mercury content requirement of the US Mercury - Containing Battery

Management Act Public Law No. 104-142 (1996).



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

Violet,Shi

Approved Signatory

Volet Shi



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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description CAN20-035701.003 SN1 Button cell

Remarks:

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

European Directive 2006/66/EC and its Article 4 amendment of Directive 2013/56/EU- Heavy Metals Content in Batteries and Accumulators

Test Method: SGS In House Method (GZTC CHEM-TOP-068), analysis was performed by ICP-OES.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Cadmium (Cd)	0.0020	%(w/w)	0.0010	ND
Lead (Pb)	-	%(w/w)	0.0010	ND
Mercury (Hg)	0.0005	%(w/w)	0.0001	ND
Comment				Pass

Notes:

- (1) Results shown are of total weight of the battery sample.
- (2) According to the European Directive 2006/66/EC and its Article 4 amendment of Directive 2013/56/EU, all types of battery shall include the chemical symbol Lead when containing more than 0.004% of Pb.

US Mercury-Containing Battery Management Act Public Law 104-142(1996)-Mercury (Hg)

Test Method: SGS In House Method (GZTC CHEM-TOP-068), analysis was performed by ICP-OES.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Mercury (Hg)	*	mg/cell	0.1	ND
Comment				PASS

Notes:



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(1) Limit shown is with reference to the US Mercury - Containing Battery Management Act Public Law No 104-142 (1996).

Table 1

Tubic 1				
Battery type	MDL	<u>Limit*</u>		
Alkaline-manganese button cell	0.1mg/cell	25mg/cell		
Zinc-Carbon battery	0.1mg/kg	ND		
Alkaline-manganese battery	0.1mg/kg	ND		
Other battery	0.1mg/kg	-		



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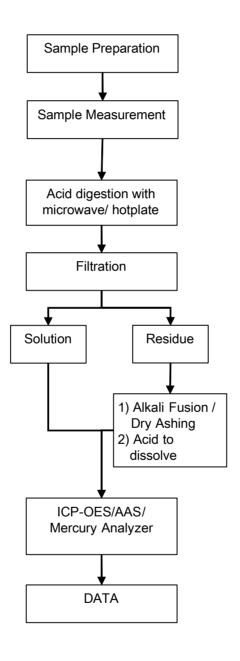
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ATTACHMENTS

Battery Testing Flow Chart





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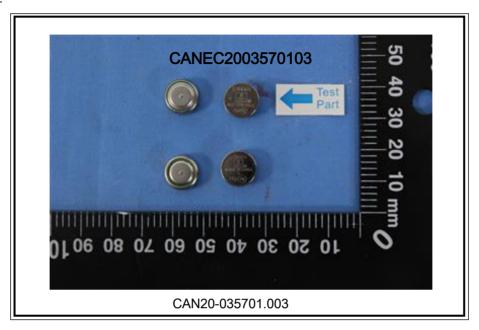


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Sample photo:



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