



Test Report

No. 2171812/JL

Date : Jun 09 2010

Page 1 of 4

NEW LEADER BATTERY IND. LTD.
FLAT A, 4/F, BLOCK 1, CAMELPAINT BUILDING,
62 HOI YUEN ROAD, KWUN TONG,
KOWLOON, HONG KONG

The following sample was submitted and identified on behalf of the client as CR927 3.0V LITHIUM BATTERY.

SGS Job No. : 3478468
Sample Receiving Date : MAY 31 2010
Testing Period : JUN 01 – 08 2010

Test Requested : Please refer to the result summary.

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

Result Summary :

Test Requested	Conclusion
1. European Directive 2006/66/EC and its amendments – Lead, Cadmium and Mercury Content	PASS
2. US Public Law No 104-142 (1996) Title II – Mercury-Containing Battery Management Act – Mercury Content	PASS
3. Cadmium, Lead, Mercury, Hexavalent Chromium, Polybromobiphenyl (PBB) and Polybromodiphenyl ether (PBDE) content (As per client's request)	--

Signed for and on behalf of
SGS Hong Kong Ltd.

Chan Yu Yan, Cyrus
Section Manager

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Test Report

No. 2171812/JL

Date : Jun 09 2010

Page 2 of 4

Test Results :

1) European Directive 2006/66/EC and its amendments – Lead, Cadmium and Mercury Content

Method : Acid digestion followed by Atomic Absorption Spectrometry analysis.

For button cells:

Test Item	Result (%)	Detection Limit (%)	Labelling requirement (%)	Permissible Limit (%)
	1			
Lead (Pb)	ND	0.001	> 0.004	--
Cadmium (Cd)	ND	0.001	> 0.002	0.002
Mercury (Hg)	ND	0.0001	> 0.0005	2
Comment	PASS	--	--	--

Sample Description :

1. CR927 3.0V LITHIUM BATTERY

Note : 1. % = percentage by weight

2. > = greater than

3. ND = Not Detected

2) US Public Law No 104-142 (1996) Title II – Mercury-Containing Battery Management Act – Mercury Content

Method : Acid digestion followed by Atomic Absorption Spectrometry analysis.

For alkaline manganese button cell :

Test Item	Result (mg/cell)	Detection Limit (mg/cell)	Permissible Limit (mg/cell)
	1		
Mercury (Hg)	ND	1	25
Comment	PASS	--	--

Sample Description :

1. CR927 3.0V LITHIUM BATTERY

Note : 1. mg/cell = milligram per cell

2. ND = Not Detected

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Test Report

No. 2171812/JL

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Page 3 of 4

Test Results (Cont'd) :

3) Cadmium, Lead, Mercury, Hexavalent Chromium, Polybromobiphenyl (PBB) and Polybromodiphenyl ether (PBDE) content

Method : With reference to IEC 62321:2008. Lead, Cadmium and Mercury were analyzed by Inductively Coupled Argon Plasma Spectrometry, Chromium (VI) was analyzed by UV-Visible Spectroscopy and PBB, PBDE were analyzed by Gas Chromatography – Mass Spectrometry (GC-MS).

Test Item	Result (mg/kg)	Detection Limit (mg/kg)	Reference Limit (mg/kg)
	1		
Cadmium (Cd)	ND	5	100
Lead (Pb)	9	5	1000
Mercury (Hg)	ND	5	1000
Hexavalent Chromium (Cr(VI))	ND	5	1000
Sum of PBBs	ND	--	1000
Monobromobiphenyl	ND	5	--
Dibromobiphenyl	ND	5	--
Tribromobiphenyl	ND	5	--
Tetrabromobiphenyl	ND	5	--
Pentabromobiphenyl	ND	5	--
Hexabromobiphenyl	ND	5	--
Heptabromobiphenyl	ND	5	--
Octabromobiphenyl	ND	5	--
Nonabromobiphenyl	ND	5	--
Decabromobiphenyl	ND	5	--
Sum of PBDEs	ND	--	1000
Monobromodiphenyl ether	ND	5	--
Dibromodiphenyl ether	ND	5	--
Tribromodiphenyl ether	ND	5	--
Tetrabromodiphenyl ether	ND	5	--
Pentabromodiphenyl ether	ND	5	--
Hexabromodiphenyl ether	ND	5	--
Heptabromodiphenyl ether	ND	5	--
Octabromodiphenyl ether	ND	5	--
Nonabromodiphenyl ether	ND	5	--
Decabromodiphenyl ether ##	ND	5	--
Comment	PASS	--	--

Sample Description :

1. CR927 3.0V LITHIUM BATTERY

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Note : 1. mg/kg = milligram per kilogram
2. ND = Not Detected

Remark : 1. Reference limits are quoted from European Directive 2002/95/EC (RoHS) and its subsequent amendments.
2. ## = The exemption of DecaBDE in polymeric application according 2005/717/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE will be included in the sum of PBDE after 01.07.2008.



*** End of Report ***

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