DURACELL HPL LITHIUM CELLS/BATTERIES
TEST SUMMARY

IN ACCORDANCE WITH SUB-SECTION 38.3 OF THE MANUAL OF TESTS AND CRITERIA

CELL/BATTERY UN38.3 TEST SUMMARY

Revision Date: November 20, 2019 **Revision Number:** HPL_TS-2020-REV2

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DURACELL's product lithium metal cells and batteries have been successfully tested and comply with the UN Model Regulations, Manual of Tests and Criteria, Part III, subsection 38.3.

UN38.3 PERFORMED TESTS			RESULTS
38.3.4.1	T1	Altitude Simulation	**PASS**
38.3.4.2	T2	Thermal Test	**PASS**
38.3.4.3	T3	Vibration	**PASS**
38.3.4.4	T4	Shock	**PASS**
38.3.4.5	T5	External Short Circuit	**PASS**
38.3.4.6	T6	Impact/Crush	**PASS**
38.3.4.7	T7	Overcharge	n/a
38.3.4.8	T8	Forced Discharge	**PASS**

PRODUCT TEST INFORMATION

The cells and batteries listed below were tested to UN Manual Tests and Criteria Revision 3 Amendment 1 or subsequent revisions or amendments.

Model Number	Physical Description	Battery Mass	Lithium grams	Test Report Number	Test Report Date
123A	Li metal cell 123, CR123A, DL123A CR17345	17g	0.6g	No. CP0015-13	9/26/2013
CR2	Li metal cell, CR15H270, CR2	11g	0.33g	RZUN2016-4115	01/11/2017
123A	Li metal cell 123, CR123A, DL123A CR17345	17g	0.6g	RZUN2019-2932	10/18/2019
2/3A	Li metal cell 123, CR123A, DL123A CR17345	16g	0.6g	No. CP0049-1	6/28/2018
223	Li metal BATTERY, CR223, CR-P2	37g	1.1g	No. BP0003-2	4/17/2009
245	Li metal BATTERY, CR245, 2CR5	38g	1.1g	No. BP0003-3	12/3/2008
1/3N	Li metal cell CR/DL 1/3N, CR11108	3.3g	0.06g	C-C-114-05	11/06/2019
PX28L	Li metal BATTERY, 2CR11108, 28L, 2CR13252	9.1g	0.12g	C-B-168-01	11/06/2019
123A	Li metal cell 123, CR123A, DL123A CR17345	17g	0.4g	RZUN2019-2693	08/23/2019
CRV3	Li metal Battery, CR-V3	39g	1.3g	No. BP0002-2	01/09/2009

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Signature with name and Job Title of signatory:	**Date this document was generated:**
Stephen Benoit **DURACELL**, *Manager of Product Safety and Regulatory*	November 20, 2019