



Energizer Brands, LLC.  
 533 Maryville University Drive  
 St. Louis, MO 63141  
 1-314-985-2000  
[www.Energizer.com](http://www.Energizer.com)

## Lithium Battery Test Summary L91

**Product: Energizer L91 (AA/FR6) Lithium Batteries**

<b>Name of cell manufacturer</b>	<b>Energizer Brands, LLC</b>
<b>Cell manufacturer contact information</b>	533 Maryville University Drive, St. Louis, MO 63141 314-985-2000 E-mail: <a href="mailto:Enviro-Regulatory@Energizer.com">Enviro-Regulatory@Energizer.com</a> <a href="http://www.energizer.com">www.energizer.com</a>
<b>Test laboratory contact information</b>	Shanghai Research Institute of Chemical Industry Testing Centre West entrance, No.345 East Yunling Road, Shanghai Telephone: 021-52569800 E-mail: <a href="mailto:wyorama@gmail.com">wyorama@gmail.com</a> <a href="http://www.ghs.cn">www.ghs.cn</a>
<b>Test report identification number</b>	1118120077
<b>Date of test report</b>	24 Jan 2019
<b>Description of cell</b>	<b>Battery type:</b> Lithium metal battery <b>Weight of battery:</b> 15g <b>Lithium content:</b> less than 1 g <b>Battery description:</b> Lithium iron disulfide, AA battery <b>Model Number:</b> L91
<b>Reference assembled battery testing requirements</b>	N/A



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Energizer hereby certifies that the L91 battery meets all the requirements outlined in the Manual of Tests and Criteria of the UN Recommendations on the Transport of Dangerous Goods, Part III, sub-section 38.3. The L91 battery passes all the T-test as described in the table below.

Manual of Tests and Criteria (38.3 Rev. 6 Lithium batteries)		Test Result
Number	Test	Pass
T1	Altitude simulation	Pass
T2	Thermal test	Pass
T3	Vibration	Pass
T4	Shock	Pass
T5	External short circuit	Pass
T6	Crush	Pass
T7	Overcharge	Not applicable
T8	Forced discharge	Pass
--	1.2 Meter Drop Test (packaging test)	
	2.5 kg maximum air shipment packaging	Pass
	Volume pack (< 30 kg)	Pass

Marcus K. Boolish  
 Manager of Environmental Affairs, Standards & Product Safety  
 30 January 2019



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