



TEST REPORT

Report No. : (6225)062-0117
Date : March 12, 2025
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APPLICANT
申請人 : E-One Moli Energy Corp.
No. 10, Dali 2nd Rd., Shanhua Dist, Tainan, 74144 Taiwan
： 能元科技股份有限公司
74144 台南市善化區大利二路 10 號

CONTACT PERSON
聯絡人 : —

DATE OF SUBMISSION
送樣日期 : March 03, 2025
： 2025 年 03 月 03 日

PERFORMANCE PERIOD
測試日期 : March 03, 2025 to March 12, 2025
： 2025 年 03 月 03 日至 2025 年 03 月 12 日

SAMPLE DESCRIPTION
樣品描述 : Rechargeable Lithium ion Battery Cell

ITEM NO.
產品型號 : INR-21700-M50A

SUMMARY OF TEST RESULTS 測試結果摘要

TEST REQUESTED 測試要求	CONCLUSION 結論	REMARK 備註
Heavy Metals and Flame Retardants Content – European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) 重金屬和阻燃劑含量 – 有關歐盟委員會針對電子產品的指令(電子電氣禁用某些有害物質指令)，2011/65/EU	DATA 數據	Test result in page 3 測試結果請見第 3 頁
Phthalates Test – Directive (EU)2015/863 Amendment of European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) 鄰苯二甲酸鹽測試 – 指令 2011/65/EU 歐洲議會和理事會關於電子電氣設備中限制使用某些有害物質 (RoHS)的修正案指令(EU)2015/863.	DATA 數據	Test result in page 4 測試結果請見第 4 頁

C/N /TC/JK



Bureau Veritas
Consumer Product Service (H.K.)
Ltd.
Taiwan Branch
37, Zhongyang S Rd., Sec. 2, Beitou,
Taipei 112, Taiwan, R.O.C.
Tel : 886-2-2895-3666
Fax: 886-2-2895-6999
<http://www.cps.bureauveritas.com>

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REMARK 備註

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

若有任何疑問或諮詢，請與我們聯絡：

Primary Contact: Tiffany Chin

Tel: 886-2-2895-3666, Ext 231

Email: tiffany.chin@bureauveritas.com

Technical Inquiry: Jack Chiu

Tel: 886-2-2895-3666, Ext 208

Email: jack.chiu@bureauveritas.com

Back-up Contact: Vico Lin

Tel: 886-2-2895-3666, Ext 336

Email: vico.lin@bureauveritas.com

BUREAU VERITAS CONSUMER PRODUCTS SERVICES
(HONG KONG) LIMITED, TAIWAN BRANCH

PREPARED BY : Tiffany Chin

VICO LIN
MANAGER
ANALYTICAL DEPARTMENT

TEST RESULT 測試結果

Tested item 測試部件	
1.	Whole product (battery, mixed all parts) / 整個產品 (電池, 整體混測)

Heavy Metals and Flame Retardants Content – European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)
重金屬和阻燃劑含量 – 有關歐盟委員會針對電子產品的指令(電子電氣禁用某些有害物質指令)，2011/65/EU

Compounds 化合物	Unit 單位	Tested item 測試部件	RoHS' Limits 限用有害物質指令限值
		1	
Lead [Pb] / 鉛	mg/kg	N.D. 未檢出	1000
Cadmium [Cd] / 鎘	mg/kg	N.D. 未檢出	100
Mercury [Hg] / 汞	mg/kg	N.D. 未檢出	1000
Chromium (VI) [Cr(VI)] / 六價鉻	mg/kg	N.D. 未檢出	1000
	—	Negative 陰性	Negative 陰性
Polybrominated Biphenyls[PBBs] / 多溴聯苯			
Bromobiphenyls / 一溴聯苯	mg/kg	N.D. 未檢出	
Dibromobiphenyls / 二溴聯苯	mg/kg	N.D. 未檢出	
Tribromobiphenyls / 三溴聯苯	mg/kg	N.D. 未檢出	
Tetrabromobiphenyls / 四溴聯苯	mg/kg	N.D. 未檢出	
Pentabromobiphenyls / 五溴聯苯	mg/kg	N.D. 未檢出	
Hexabromobiphenyls / 六溴聯苯	mg/kg	N.D. 未檢出	
Heptabromobiphenyls / 七溴聯苯	mg/kg	N.D. 未檢出	
Octabromobiphenyls / 八溴聯苯	mg/kg	N.D. 未檢出	
Nonabromobiphenyls / 九溴聯苯	mg/kg	N.D. 未檢出	
Decabromobiphenyl / 十溴聯苯	mg/kg	N.D. 未檢出	
Sum of PBBs / 多溴聯苯總和	mg/kg	N.D. 未檢出	1000
Polybrominated Diphenyl Ethers[PBDEs] / 多溴聯苯醚			
Bromodiphenyl ethers / 一溴聯苯醚	mg/kg	N.D. 未檢出	
Dibromodiphenyl ethers / 二溴聯苯醚	mg/kg	N.D. 未檢出	
Tribromodiphenyl ethers / 三溴聯苯醚	mg/kg	N.D. 未檢出	
Tetrabromodiphenyl ethers / 四溴聯苯醚	mg/kg	N.D. 未檢出	
Pentabromodiphenyl ethers / 五溴聯苯醚	mg/kg	N.D. 未檢出	
Hexabromodiphenyl ethers / 六溴聯苯醚	mg/kg	N.D. 未檢出	
Heptabromodiphenyl ethers / 七溴聯苯醚	mg/kg	N.D. 未檢出	
Octabromodiphenyl ethers / 八溴聯苯醚	mg/kg	N.D. 未檢出	
Nonabromodiphenyl ethers / 九溴聯苯醚	mg/kg	N.D. 未檢出	
Decabromodiphenyl ether / 十溴聯苯醚	mg/kg	N.D. 未檢出	
Sum of PBDEs / 多溴聯苯醚總和	mg/kg	N.D. 未檢出	1000

TEST RESULT 測試結果

Phthalates Test – Directive (EU)2015/863 Amendment of European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)

鄰苯二甲酸鹽測試 – 指令 2011/65/EU 歐洲議會和理事會關於電子電氣設備中限制使用某些有害物質 (RoHS) 的修正案指令(EU)2015/863.

Test Parameter 測試項目	CAS No. CAS 編號	Unit 單位	Tested item 測試部件	Maximum Allowable Limit 最大允許限值
			1	
Dibutyl phthalate (DBP) 鄰苯二甲酸二丁酯	84-74-2	%	N.D. 未檢出	0.1
Butyl benzyl phthalate (BBP) 鄰苯二甲酸丁苄酯	85-68-7	%	N.D. 未檢出	0.1
Bis(2-ethylhexyl) phthalate (DEHP) 鄰苯二甲酸二異辛酯	117-81-7	%	N.D. 未檢出	0.1
Diisobutyl phthalate (DIBP) 鄰苯二甲酸二異丁酯	84-69-5	%	N.D. 未檢出	0.1

Note 註解:

N.D. = Not Detected (未檢出/ 低於報告限值) — = Empty (空白)
mg/kg = milligram per kilogram = ppm (毫克/公斤, 百萬分之一)
% = percent (百分率) 10 000 mg/kg = 1 %

Reporting Limit / 報告限值:

Pb, Cd, Hg: 2 mg/kg

Cr(VI): 8 mg/kg

Cr(VI) (非金屬, Non-metal): 8 mg/kg

Cr(VI) (金屬, Metal): 0.1 µg/cm²

Metal 金屬

Cr(VI): 0.1 µg/cm²

#The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13µg/cm². The coating is considered to contain Cr(VI).

當六價鉻結果大於 0.13µg/cm², 表示樣品表層含有六價鉻。

#The sample is negative for Cr(VI) if the Cr(VI) concentration is less than 0.10µg/cm². The coating is considered a non-Cr(VI) based coating.

當六價鉻結果小於 0.10µg/cm², 表示樣品表層不含六價鉻。

#The result between 0.10µg/cm² and 0.13µg/cm² is considered to be inconclusive – unavoidable coating variations may influence the determination.

當六價鉻結果介於 0.10µg/cm² 和 0.13µg/cm² 之間, 表示樣品表層不確定含有六價鉻 – 不可避免塗料的變化性可能影響結果判定。

PBBs & PBDEs: Each 5 mg/kg

DBP, BBP, DEHP, DIBP: Each 0.005% ; Sum: 0.02%

Test Parameter 測試項目	Test Method 測試方法
Lead [Pb] / 鉛	With reference to IEC 62321-5: 2013. 參照 IEC 62321-5: 2013.
Cadmium [Cd] / 鎘	
Mercury [Hg] / 汞	With reference to IEC 62321-4: 2013+AMD 1:2017 CSV. 參照 IEC 62321-4: 2013+AMD 1:2017 合併版本.
Chromium (VI) [Cr(VI)] / 六價鉻	Metal 金屬: With reference to IEC 62321-7-1:2015. ^[a] 參照 IEC 62321-7-1:2015. ^[a] Polymers & Electronics 聚合物及電子: With reference to IEC 62321-7-2:2017. 參照 IEC 62321-7-2:2017.
Polybrominated Biphenyls [PBBs] and Polybrominated Diphenyl Ethers [PBDEs] / 多溴聯苯和多溴聯苯醚	With reference to IEC 62321-6: 2015. 參照 IEC 62321-6: 2015.
Dibutyl phthalate (DBP), Butyl benzyl phthalate (BBP), Bis(2-ethylhexyl) phthalate (DEHP), Diisobutyl phthalate (DIBP) / 鄰苯二甲酸二丁酯, 鄰苯二甲酸丁苄酯, 鄰苯二甲酸二異辛酯, 鄰苯二甲酸二異丁酯	With reference to IEC 62321-8: 2017. 參照 IEC 62321-8: 2017.
[a]	The principle of this method was evaluated and supported by two studies organized by IEC TC 111 WG3. These studies were focused on detecting the presence of Cr VI in the corrosion protection coatings on metallic samples. 該方法的原理是在由 IEC TC111 WG3 組織的兩次研究中得到充分評估並獲得了認可。這些研究著重於對金屬樣品上的防腐塗層中六價鉻的存在檢測(定性測試)

Remark 備註:

- The result only relates to the tested item. The report shall not be reproduced except full without the written approval of the testing laboratory. Parameters which are not covered by the lab's testing scope are subcontracted to laboratories with government approval. The accreditation relates to competences given in the accreditation certificate.
測試結果僅代表經測試部件。本報告未經測試實驗室認可不得複製。未在本實驗室測試範疇之測試均委外至經官方核可之實驗室。委外實驗室之能力經認證許可。
- Samples test were conducted as per applicant's request.
樣品測試進行為依照申請人的要求。

- End 結束 -

Photo of the Submitted Sample
委送樣品照片



Sample

APPENDIX(附錄)

Test Flowchart of Heavy Metals, Flame Retardants and Phthalates Content [European Council Directive 2011/65/EU]:

重金屬、阻燃劑及鄰苯二甲酸鹽含量的測試流程圖 [歐盟委員會指令 2011/65/EU]:

These samples were dissolved totally by pre-conditioning method according to below flow chart.

(Cr⁶⁺ test method excluded)

根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外)

