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No.: RZUN2023-3051

# 检测报告 TEST REPORT

**UN38.3** 

NAME OF SAMPLE:	Li-ion Battry	
产品名称:	锂离子电池	
CLIENT: 委托单位:	Skullcandy, Inc.	
<u></u>		
CLASSIFICATION OF TEST:	Commission Test	
检测类别:	委托测试	

威凯检测技术有限公司 CVC Testing Technology Co., Ltd.

### 检测报告

### **TEST REPORT**

No.: RZUN2023-3051 Page 2 of 14 Pages Type/Model: Name of samples: Li-ion Battry 型号规格: 801834 样品名称:锂离子电池 3,7V 500mAh 1,85Wh Color: Silver Physical shape: Prismatic 样品颜色:银色 样品形状: 棱柱形 Commissioner address:6301 N Landmark Dr Park Commissioned by: Skullcandy, Inc. City 84098, Utah United States of America 委托单位: -委托单位地址:-Manufacturer address:Building 30th, Xin Tai Yang Industrial City, No.8, Xinyang Road, Lin Cun Manufacturer: Dongguan Sunly Battery Technology Community, Tangxia Town, Dongguan Co., Ltd. Guangdong Province, P.R. China 制造商: 东莞山锂电池科技有限公司 制造商地址: 东莞市塘厦镇林村社区新阳路 8 号新太阳 工业城第30座 Factory address: Same as manufacturer Factory: Same as manufacturer 生产厂: 同制造商 生产厂地址: 同制造商 Classification of test: Commission Test Quantity of sample: 44 cells 样品数量: 44 个电芯 检测类别: 委托测试 Tested according to: Sample identification: 测试标准: ST/SG/AC.10/11/Rev.7/Amend.1/Section 样品标识序号: c1#~c44# 38.3 Receiving date: Means of receiving: Submitted by commissioner 接样日期: 2023-06-19 接样方式:委托单位送样

#### Test conclusion:

Completing date: 完成日期: 2023-07-10

检测结论:

The Li-ion Battry submitted by Skullcandy, Inc. are tested according to Section 38.3 of the Seventh revised edition Amendment 1 of the Manual of Tests and Criteria (ST/SG/AC.10/11/Rev.7/Amend.1/Section 38.3). The test items are full items. The test results comply with the relevant requirements of the standard.

Test item: 8 items

测试项目: 8项

由 Skullcandy, Inc.送检的锂离子电池,依据联合国《试验和标准手册》第七修订版修正 1 第 38.3 节进行检测,试验为全项目,试验结果符合标准相关要求。

Seal of CVC CVC 盖章 Date of issue:

签发日期: 2023-07-11

Title:Manager批准人职务:经理

Approved by: Huang Kun Reviewed by: Zhang Siyao Tested by: Zhang Jinzhen

批准: Hurgen 审核: Zhang siyon 检测: Zhang linshon

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Description and illustration of the sample:

样品说明及描述:

The sample's status is good

样品状况良好。

Cell Dimensions/电芯尺寸: 7,8mm\*18mm\*32mm

Watt-hour rating of each cell/ 单个电芯的瓦时率: 1,85Wh

Test item	Sample No.	State	Remark
试验项目	样品编号	状态	备注
	c1#~c5#	at first cycle, in fully charged states 第一个交替充电放电周期完全充电状态	
T.1~T.5	c6#~c10#	after 25 cycles ending in fully charged states 第 25 个交替充电放电周期完全充电状态	-
T.6	c11#~c15#	at first cycle at 50% of the design rated capacity 第一个交替充电放电周期充电到设计额定容量的 50%	
1.0	c16#~c20#	after 25 cycles ending at 50% of the design rated capacity 第 25 个交替充电放电周期充电到设计额 定容量的 50%	-
Т.7	c1#~c4#	at first cycle, in fully charged states 第一个交替充电放电周期完全充电状态	using undamaged samples previously used in tests T.1 to T.5 使用试验 T.1 至 T.5 未 损坏的样品
	c41#~c44#	after 25 cycles ending in fully charged states 第 25 个交替充电放电周期完全充电状态	-
	c21#~c30#	at first cycle, in fully discharged states 第一个交替充电放电周期完全放电状态	-
T.8	c31#~c40#	after 25 cycles ending in fully discharged states 第 25 个交替充电放电周期完全放电状态	-

Description of the deviation from the standard, if any:

试验结果不符合标准项的说明:

/

#### Remarks:

备注:

Throughout this report a comma is used as the decimal separator.

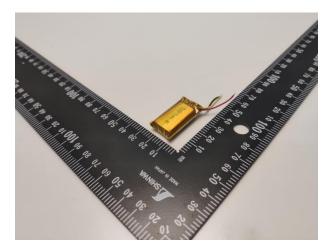
本报告中以逗号代替小数点。

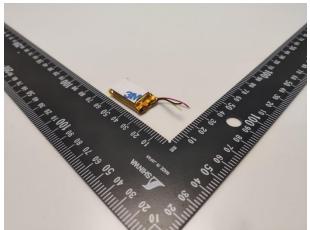
The Li-ion Battry submitted by Skullcandy, Inc. are single cell batteries. According to the standard, a single cell battery is considered a "cell" and shall be tested according to the testing requirements for "cell".

Skullcandy, Inc.所送的锂离子电池是单电芯电池。根据标准要求,单电芯电池被视为"电芯",须根据"电芯"的实验要求进行试验。

### Photos of Samples and Labels/样品照片及标识

Single Cell Battery /单电芯电池 (801834 3,7V 500mAh 1,85Wh)

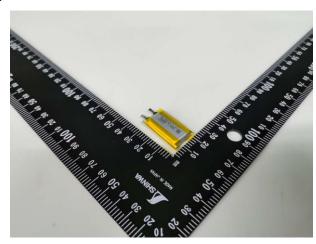


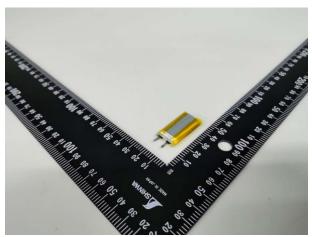




## Photos of Samples and Labels/样品照片及标识

Component Cell/电芯(801834 3,7V 500mAh)







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	ST/SG/AC.10/11/Rev.7/Amend.1/Se	ection 38.3	
Clause 章节	Requirements 标准要求	Result 测试结果	Verdict 判定
38.3.4	Procedure/试验步骤		_
	Test T.1: Altitude simulation/试验 T.1: 高度模拟		
	Test cells and batteries shall be stored at a pressure six hours at ambient temperature (20±5℃)/ 将电芯利压力为不大于 11,6kpa 的环境中贮存不少于 6 个小时		
	Requirement/标准要求:		
38.3.4.1	1 Cells and batteries Mass loss limit: ≤0,2% /样品质量损失≤0,2%	The samples c1#~c10#: No leakage, no venting, no	P
	2 Open circuit voltage not less than 90%, The requirement relating to voltage is not applicable to test cells and batteries at full discharged states. 样品试验后开路电压应不低于试验前开路电压的 90%,此要求不适用于完全放完电的电池和电芯。	disassembly, no rupture and no fire/编号为c1#~c10#的样品:无漏液、无排气、无解体、无破裂以及无着火现象	·
	3 No leakage, no venting, no disassembly, no rupture and no fire 样品(电池)应无漏液、无排气、无解体、无破裂以及无着火现象的发生	The data is shown in Table 1./数据见表 1	
	Test T.2: Thermal test/试验 T.2: 温度试验		
	Test cells and batteries are to be stored for/电池存储	条件如下:	
	1 For small cells and batteries: one temperature cyc /对于小电芯和电池: 一次温度循环为 72±2℃(6h) —-4	, ,	
	For large cells and batteries: one temperature cycle: /对于大电芯和电池: 一次温度循环为 72±2℃(12h) —		
	2 The maximum time interval between test temperatu 度转换最大间隔时间为 30min	ire extremes is 30 minutes/温	
	3 This procedure is to be repeated 10 times/重复 10 8	欠循环	
38.3.4.2	4 after which all test cells and batteries are to be st temperature (20±5℃)/循环结束后,电池在 20±5℃的		P
	Requirements/标准要求		
	1 Cells and batteries Mass loss limit: ≤0,2% /样品质量损失≤0,2%	The samples c1#~c10#:	
	2 Open circuit voltage not less than 90%, The requirement relating to voltage is not applicable to test cells and batteries at full discharged states. 样品试验后开路电压应不低于试验前开路电压的 90%,此要求不适用于完全放完电的电池和电芯。	No leakage, no venting, no disassembly, no rupture and no fire/编号为c1#~c10#的样品:无漏液、无排气、无解体、无破裂以及无着火现象	
	3 No leakage, no venting, no disassembly, no rupture and no fire 样品(电池)应无漏液、无排气、无解体、无破裂以及无着火现象的发生	The data is shown in Table 1./数据见表 1	

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	ST/SG/AC.10/11/Rev.7/Amend.1/Se	ection 38.3							
Clause 章节	Requirements Result 标准要求 测试结果								
38.3.4.3	<b>标准要求</b> Test T.3: Vibration/试验 T.3: 振动  1 Cells and batteries are firmly secured to the platforn 芯和电池牢固地安装在振动台(的台面)上  2 The vibration: a sinusoidal waveform with a logarith 200Hz and back to 7Hz traversed in 15 minutes/振速至 200Hz,然后在减少回到 7Hz 为一个循环,一个循送。  3 For cells and small batteries: from 7 Hz a peak acceluntil 18Hz is reached. The amplitude is then mainta excursion) and the frequency increased until a peal (approximately 50Hz). A peak acceleration of 8gn frequency is increased to 200Hz. / 对于电芯和小型电流值加速度保持不变,直到达到 18Hz。然后将振幅保持并且频率增加直到出现 8gn 的峰值加速度(大约 50Hz度,直到频率增加到 200Hz。  For large batteries: from 7Hz a peak acceleration of 1 reached. The amplitude is then maintained at 0,8mm the frequency increased until a peak acceleration of 25Hz). A peak acceleration of 2gn is then maintaincreased to 200Hz. / 对于大型电池: 从 7Hz 开始,变,直到达到 18Hz。然后将振幅保持在 0,8mm(总值到出现 2gn 的峰值加速度(大约 25Hz)。然后保持 2g加到 200Hz。  4 This cycle repeated 12 times for a total of 3 hour perpendicular mounting position of the cell. One of the perpendicular to the terminal face. /以振动的其中性,对每个电芯从三个互相垂直的方向上循环 12 次,时。  Requirements/标准要求 1 Cells and batteries Mass loss limit: ≤0,2% /样品质量损失≤0,2% 2 Open circuit voltage not less than 90%, The requirement relating to voltage is not applicable to test cells and batteries at full discharged states.	mic sweep between 7Hz and 动以正弦波形式,以 7Hz 增加环持续 15 分钟的对数前移传 eleration of 1gn is maintained ained at 0,8mm (1,6mm total k acceleration of 8gn occurs is then maintained until the 他:从 7Hz 开始,以 1gn 的峰在 0,8mm(总偏移 1,6mm)。然后保持 8gn 的峰值加速 gn is maintained until 18Hz is (1,6mm total excursion) and of 2gn occurs (approximately ained until the frequency is 以 1gn 的峰值加速度保持不扁移 1,6mm)并且频率增加直 gn 的峰值加速度,直到频率增加 is for each of three mutually e directions of vibration must 中一个方向必须是垂直样品极	判定 P						
	样品试验后开路电压应不低于试验前开路电压的 90%,此要求不适用于完全放完电的电池和电芯。 3 No leakage, no venting, no disassembly, no rupture and no fire 样品(电池)应无漏液、无排气、无解体、无破裂以及无着火现象的发生	无排气、无解体、无破裂以及无着火现象 The data is shown in Table 1./数据见表 1							

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	ST/SG/AC.10/11/Rev.7/Amend.1/Se	ection 38.3						
Clause 章节	RequirementsResult标准要求测试结果							
	Requirements	Result 测试结果  ting machine/以稳固的托架固  f peak acceleration of 150 gn y be subjected to a half-sine n of 11 milliseconds. / 对每个 卖 6 毫秒,大型电芯须经受最 k of peak acceleration of 150 ler) and pulse duration of 6 half-sine of peak acceleration maller) and pulse duration of  100850 mass  中的较小值)的半正	Verdict 判定					
38.3.4.4	$\sqrt{\frac{30000}{mass}}$ 中的较小值)和脉冲持续时间 11 毫秒的半 3 Each cell or battery shall be subjected to three sh followed by three shocks in the negative direction of mounting positions of the cell or battery for a total of 须在三个互相垂直的电池安装方位的正方向经受三次流	正弦波冲击。 ocks in the positive direction three mutually perpendicular 18 shocks/每个电池或电池组	P					
	冲击,总共经受 18 次冲击。 Requirements/标准要求: 1 Cells and batteries Mass loss limit: ≤0,2% /样品质量损失≤0,2% 2 Open circuit voltage not less than 90%, The requirement relating to voltage is not applicable to test cells and batteries at full discharged states. 样品试验后开路电压应不低于试验前开路电压的 90%,此要求不适用于完全放完电的电池和电芯。 3 No leakage, no venting, no disassembly, no rupture and no fire 样品(电池)应无漏液、无排气、无解体、无破裂以及无着火现象的发生	The samples c1#~c10#: Acceleration=150g <sub>n</sub> No leakage, no venting, no disassembly, no rupture and no fire/编号为c1#~c10#的样品: 峰值加速度=150g <sub>n</sub> 无漏液、无排气、无解体、无破裂以及无着火现象 The data is shown in Table 1./数据见表 1						

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	ST/SG/AC.10/11/Rev.7/Amend.1/Se	ection 38.3						
Clause 章节	RequirementsResult标准要求测试结果							
	Test T.5: External Short Circuit/试验 T.5 :外部短路							
	1The cell or battery to be tested shall be heated for a reach a homogeneous stabilized temperature 57±4℃ 度稳定在 57±4℃	•						
	2 The cell or battery shall be subjected to a short external resistance of less than 0,1 ohm at 57±4℃, continued for at least one hour after the cell or batte has returned to 57±4℃/将样品正负极用小于 0,1Ω 的外表温度恢复到 57±4℃之后保持短路状态 1 小时以上	This short circuit condition is ry external case temperature 总电阻回路进行短路,样品的						
38.3.4.5	3 The cell or battery must be observed for a further concluded, /对电芯或电池必须进一步观察 6 个小时才能下结论。	r six hours for the test to be	Р					
	Requirements/标准要求: During the test and within six hours after test ,the cells or batteries 在试验过程中以及之后 6 个小时内,电芯或电池样品  1. External temperature not exceed 170℃ 外表温度不超过 170℃  2. No disassembly, no rupture and no fire.	The samples c1#~c10#: no disassembly, no rupture and no fire/编号为 c1#~c10#的样品: 无解体、 无破裂以及无着火现象 The data is shown in Table						
	无解体、无破裂和无着火现象发生。	1./数据见表 1 						

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	ST/SG/AC.10/11/Rev.7/Amend.1/Se	ction 38.3									
Clause 章节	Requirements Result 测试结果										
	Test T.6: Impact / Crush / 试验 T.6: 撞击/挤压		Р								
	Impact (applicable to cylindrical cells not less than 18r 撞击(适用于直径不小于 18 毫米的圆柱形电池)	mm in diameter) /									
	1 This test sample cell or component cell is to be placed on a flat smooth surface/ 将试验样品用的电芯或聚合物电芯放在一个平坦光滑的平面上										
	2 A 15,8 mm diameter bar is to be placed across the centre of the sample, A 9,1kg mass is to be dropped from a height of 61±2,5cm onto the sample./将一直径为15,8mm 的不锈钢圆棒横过电池中部放置后,将一质量为 9,1kg 的物体从 61±2,5cm的高度落向样品。										
	3 The test sample is to be impacted with its longitu surface and perpendicular to the longitudinal axis diameter curved surface lying across the centre of th is to be subjected to only a single impact./ 接受撞击平行并与横放在试样中心的直径 15,8±0,1 毫米弯曲表经受一次撞击。	of the 15,8 mm ± 0,1mm ne test sample. Each sample 的试样,纵轴应与平坦的表面	N/A								
	Requirements/标准要求: 1 Cells external temperature not exceed 170℃.电芯或电池的最高表面温度应不超过 170℃ 2 No disassembly, no fire within six hours of this test 试验结束后 6 个小时之内,电芯和聚合物电芯应无解体和无着火现象发生	-									
38.3.4.6	Crush (applicable to prismatic, pouch, coin/button cotthan 18mm in diameter) / 挤压(适用于棱柱形、袋装、硬币/纽扣电池和直径小 1 A cell or component cell is to be crushed between crushing is to be gradual with a speed of approximate of contact. The crushing is to be continued until the firm is reached. / 将电池或元件电池放在两个平面之间挤足一个接触点上的速度大约为 1,5 厘米/秒。挤压持续进一: (a) The applied force reaches 13 kN ± 0,78 kN. / 施加(b) The voltage of the cell drops by at least 100 mV,/年(c) The cell is deformed by 50% or more of its origin 厚度的 50%以上。 2. A prismatic or pouch cell shall be crushed by applying For cylindrical cells, the crush force shall be crushed by applying For cylindrical cells, the crush force shall be crushed by applying For cylindrical cells, the crush forc	于 18 毫米的圆柱形电池) ween two flat surfaces. The ely 1,5 cm/s at the first point rest of the three options below 压,挤压力度逐渐加大,在第行,直到出现以下三种情况之的力达到 13kN±0,78kN电池的电压下降至少 100 毫伏al thickness./电池变形达原始。 blying the force to the widest the force on its flat surfaces. oplied perpendicular to the	P								

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	ST/SG/AC.10/11/Rev.7/Amend.1/Se	ection 38.3							
Clause 章节	Requirements    Result      标准要求    测试结果								
	Test T.7: Overcharge/试验 T.7: 过度充电  1 The charge current shall be twice the manufacture continuous charge current/以 2 倍制造厂推荐的最大指2 The minimum voltage of the test shall be as follows	持续充电电流对样品充电							
38.3.4.7	a) When the manufacturer's recommended charge voltage is not more than 18V, the minimum voltage of the test shall be the lesser of two times the maximum charge voltage of the battery or 22V/ 如果厂家推荐的充电电压不超过 18V,本试验的最小充电电压应是厂家标定最大充电电压的两倍或者是 22V之中的较小者。 b) When the manufacturer's recommended charge voltage is more than 18V, the minimum voltage of the test shall be 1,2 times the maximum charge voltage/ 如果厂家推荐的充电电压超过 18V,本试验的最小充电电压应是厂家标定最大充电电压的 1,2倍。 3 Tests are to be conducted at ambient temperature 20±5℃,The duration of the test shall be 24 hours/20±5℃的环境温度下,试验持续 24 小时。	The voltage of the test is 8,4V, and the current is 1A 试验的电压为 8,4V,电流为 1A	P						
	Requirements/标准要求: No disassembly and no fire within seven days of this test 试验样品在试验中和试验后 7 天内,应无解体和无着 火现象发生。	The samples c1#~c4#; c41#~c44#: no disassembly and no fire/编号为 c1#~c4#,c41#~c44# 的样品: 无解体、无着火现象 For voltage data before test, see table 3. / 试验前电压见表 3							
	Test T.8: Forced discharge/试验 T.8: 强制放电								
	Each cell shall be forced discharged at ambient temp series with a 12 V D.C. power supply at an initial curred discharge current specified by the manufacturer, 20±5℃的环境温度下,将单个电芯连接在 12V 的直流电源提供给每个电芯初始电流为制造厂指定的最大放电	ent equal to the maximum 电源上进行强制放电,此直流							
38.3.4.8	The specified discharge current is to be obtained by of the appropriate size and rating in series with the test of discharged for a time interval (in hours) equal to its ratinitial test current (in ampere) 指定的放电电流通过串联在试验电芯上的合适大小和的强制放电时间(小时)为额定容量除以初始电流(多	cell. Each cell shall be forced ted capacity divided by the 功率的负载来获得,每个电芯	Р						
	Requirements/标准要求: No disassembly and no fire within seven days of this test 试验样品在试验中和试验后 7 天内,应无解体和无着 火现象发生。	The samples c21#~c40#: no disassembly and no fire/编号为 c21#~c40#的 样品:无解体、无着火现 象 The data is shown in Table 4./数据见表 4							

	Table1: T1~T5 / 表 1. 试验 1~试验 5											
Sample No.	Mass prior to test / 试	OCV prior to test /试	simul	: Altitude ation/ 高度模拟	Test T.2: Thermal test/ 试验 T.2: 温度试验		Test T.3: Vibration/ 试验 T.3: 振动		Test T.4: S 试验 T.4:	Test T.5: External Short Circuit/ 试验 T.5 外部 短路		
样品号		验前电	Mass Loss(%) 质量损失(%)	OCV Retention Ratio(%) 电压保留比(%)	Mass Loss(%) 质量损失(%)	OCV Retention Ratio(%) 电压保留比 (%)	Mass Loss(%) 质量损失(%)	OCV Retention Ratio(%) 电压保留比 (%)	Mass Loss(%) 质量损失(%)	OCV Retention Ratio(%) 电压保留比 (%)	Temp. (℃) 温度 (℃)	
c1#	8,994	4,184	0,000	100,00	0,044	98,40	0,000	100,00	0,000	100,00	57,2	
c2#	8,962	4,177	0,000	100,00	0,044	98,16	0,000	100,00	0,000	100,00	57,3	
c3#	9,032	4,185	0,000	100,00	0,044	98,71	0,000	100,00	0,000	100,00	57,1	
c4#	8,956	4,177	0,000	100,00	0,055	98,64	0,000	100,00	0,000	100,00	57,3	
c5#	9,011	4,184	0,000	100,00	0,044	98,49	0,000	100,00	0,000	100,00	57,0	
c6#	8,969	4,185	0,000	100,00	0,044	98,47	0,000	100,00	0,000	100,00	57,4	
c7#	9,022	4,179	0,000	100,00	0,044	98,56	0,000	100,00	0,000	100,00	57,3	
c8#	8,972	4,177	0,000	100,00	0,044	98,76	0,000	100,00	0,000	100,00	57,3	
c9#	8,983	4,180	0,000	100,00	0,044	98,76	0,000	100,00	0,000	100,00	57,2	
c10#	9,031	4,181	0,000	100,00	0,044	98,45	0,000	100,00	0,000	100,00	57,1	

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	Table2: Crush /表 2:挤压										
Test T.6:	Sample No. 样品号	c11#	c12#	c13#	c14#	c15#	c16#	c17#	c18#	c19#	c20#
Crush/试验 T.6:挤压	OCV prior to test / 试验前电压(V)	3,807	3,805	3,806	3,806	3,805	3,812	3,810	3,807	3,804	3,811
	Temp. (℃) 温度 (℃)	25,3	25,0	24,9	25,1	24,3	24,2	25,1	25,3	24,5	24,9

	Table3: Overcharge Test of batteries/ 表 3 过度充电									
Test T.7: Overcharge /	Sample No. 样品号	c1#	c2#	c3#	c4#	c41#	c42#	c43#	c44#	
试验 T.7: 过 度充电	OCV prior to test / 试验前电压(V)	4,116	4,100	4,130	4,120	4,177	4,178	4,187	4,179	

	Table 4: Forced discharge / 表 4. 强制放电											
Test T.8: Forced discharge / 试验 T.8: 强制放电	Sample No. 样品号	c21#	c22#	c23#	c24#	c25#	c26#	c27#	c28#	c29#	c30#	
	OCV prior to test / 试验前电压(V)	3,261	3,265	3,261	3,262	3,267	3,272	3,269	3,268	3,261	3,261	
	Sample No. 样品号	c31#	c32#	c33#	c34#	c35#	c36#	c37#	c38#	c39#	c40#	
	OCV prior to test / 试验前电压(V)	3,265	3,262	3,265	3,267	3,270	3,260	3,271	3,265	3,263	3,261	

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## 注意事项 Important

1. 报告无检测单位印章无效。

The test report is invalid without the seal of CVC.

- 2. 未经本试验室书面同意,不得部分地复制本报告。
  Nobody is allowed to photocopy or partly photocopy this test report without written permission of CVC.
- 3. 本报告无批准人、审核人及检测人签名无效。
  The test report is invalid without the signatures of Ratifier, Reviewer and Testing engineer.
- 4. 本报告涂改无效。

The test report is invalid if altered,

- 5. 对检测报告若有异议,应于收到报告之日起十五天内向检测单位提出。 Objections to the test report must be submitted to CVC within 15 days.
- 6. 本报告仅对送检样品负责。

The test report is valid for the tested samples only.

7. 判定栏中"-"表示"不需要判定","P"表示"通过","F"表示"不通过", "N/A"表示"不适用"。

As for the Verdict, "-" means "no need for judgement", "P" means "pass", "F" means "fail" and "N/A" means "not applicable".

\*\*报告中未加 CMA 标志时,检测数据和结果仅供科研、教学或内部质量控制之用。\*\*
The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented.

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