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WEIPU

Report No.: BP-S-25013885-C2EN

Test Report

Sample Name: PLGA

Client Name: eSUNMed Biotechnology (Shenzhen) Co., Ltd.

Client Address: 3F, No. 9, Yifeng Hua Innovation Industrial Park, Xinshi Community, Dalang Street, Longhua District, Shenzhen

Test Items: Intracutaneous reactivity test

Date of Issue: 2025.04.17

Shanghai WEIPU Testing Technology Group Co., LTD.



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DECLARE

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Organization name: Shanghai WEIPU Testing Technology Group Co., LTD.

Address: Building 9, No.135 Guowei Road, Yangpu District, Shanghai


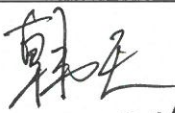

Telephone: number: 400 700 8005

Postal Code: 200438

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Task No.	/	Detection category	Commission test
Sample No.	BP-S-25013885	Sample source	Sent by client
Sample name	PLGA	Batch number	PLGA505024112710011100
Specification	50:50	Sample number	1pc
Model	/		
Manufacturer	eSUNMed Biotechnology (Shenzhen) Co., Ltd. Wuhan branch office		
Manufacturer address	Room 401, Building 13, Block B, Donghu Hi-tech International Health City, No. 24, Gold-Industrial-Park Road, Zhengdian Street, Jiangxia District, Wuhan		
Client	eSUNMed Biotechnology (Shenzhen) Co., Ltd.		
Client address	3F, No. 9, Yifeng Hua Innovation Industrial Park, Xinshi Community, Dalang Street, Longhua District, Shenzhen		
Receiving date	2025.03.05		
Test location	3rd Floor, Building 7,166-1, Fengjin Road, Fengxian District, Shanghai		
Test period	2025.03.05 to 2025.03.14		
Test item	Intracutaneous reactivity test		
Test criterion	ISO 10993-23:2021		
Test conclusion	Under the test conditions, the final score of the polar extract of the sample was 0.0, and the final score of the non-polar extract was 0.0, which met the test requirements. <div style="text-align: right;">Date of issue: 2025.04.17</div>		
Implementation standard	ISO/IEC 17025: 2017; RB/T214—2017		
Remarks	"/" in the report indicates that this item is blank		
Edited by	Checked by	Approved by (Authorized signatory)	
 Date: 2025.04.17	 Date: 2025.04.17	 Date: 2025.04.17	

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1 Objective

The relevant animal models are tested in the test for medical devices and materials. The injecting material is performed through the injection of the material to evaluate the potential of intracutaneous reactivity of the material under the test conditions.

2 Test method

Intracutaneous Reactivity Test.

3 Test and control samples

3.1 Test samples

The information in the form is provided by the client.

Sample name	PLGA
Sterilization state	Unsterilized
Sterilization methods	/
Sample material	PLGA
Application	/

3.2 Control samples

Negative control sample: 0.9%NaCl injection	
Manufacturer	Shandong Qidu Pharmaceutical Co., Ltd.
Specification	500mL/bottle
Batch No.	15B24051403
Negative control sample: Cottonseed Oil	
Manufacturer	Shanghai Macklin Biochemical Co., Ltd.
Specification	13kg/drum
Batch No.	C17477820
Positive control sample: SDS	
Manufacturer	Adamas-Beta®
Specification	100g/bottle
Batch No.	P1880796

4 Reagents and Instrument

4.1 Reagents

Name	Supplier
0.9%NaCl injection	Shandong Qidu Pharmaceutical Co., Ltd.

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Name	Supplier
Cottonseed Oil	Shanghai Macklin Biochemical Co., Ltd.

4.2 Instrument

Name	Instrument ID	Calibration is valid until
Clean bench	WPE-TL0127	2025.10.09
Shaking incubator	WPE-TL0081	2025.10.09
Electronic balance	WPE-TL0029	2025.04.10
pH meter	WPE-TL0394	2025.11.20
Electronic counting scales	WPE-TL0055	2025.04.10

5 Test system

5.1 Test animal selection

The intracutaneous reactivity test of the rabbit's skin is the most sensitive method, and it has been widely used in evaluation of medical equipment/materials.

5.2 Test animal information

Species	New Zealand white rabbit
Number	3
Sex	Male
Weight	2.210~2.291kg
Age	Early adulthood
Health condition	Healthy
Adaptation	5 days
Source	Jiashan Shengwang Ecological Farm, License number: SCXK (Zhe) 2023-0010, Quality Certificate No. : 20250307Cezz060000000053

5.3 Feeding and management

Fodder	Wuhan Wanqian Jiaxing Biotechnology Co., Ltd., license number: SCXK (E) 2021-0011
Water	Free access to water
Cage	Suspended stainless steel cage
Environment	General environment, animal room 322, the temperature range of 16~26℃, humidity range of 30~70%.

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Light	Control cycle light (12 hours light, 12 hours dark)
Veterinary	Give necessary veterinary attention
Raise	The animals were raised in accordance with the "Feeding and management procedures of the experimental animal rabbit" in our Toxicology laboratory
Certification body	The animal laboratory of this institution shall be certified by Shanghai Laboratory Animal Center, and the certifying authority: Shanghai Municipal Department of Science and Technology. Experimental animal use License No.: SYXK (Hu) 2021-0023
Welfare	The IACUC established by the Institute confirmed that the experiment used a minimum number of animals without affecting the test results, and relevant documents were developed to safeguard animal welfare

6 Experimental content

6.1 Sample preparation

Take the sample, the extracts were prepared according to the method in the table below. After the extraction, the changes of the extracts were checked. The extracts were not centrifuged and etc. The pH was not adjusted. Negative control sample was prepared by the same method.

Table 6-1 Preparation of extracts

Extraction solvent	Actually sample	Sampling ratio	Solvent volume	Sampling condition	Whether it is clear	pH
0.9%NaCl injection	2.32g	0.2g: 1mL	15.31mL ^a	37℃ 72h 60rpm	Yes	6.17
Cottonseed Oil	2.16g		12.96mL ^b		Yes	5.31

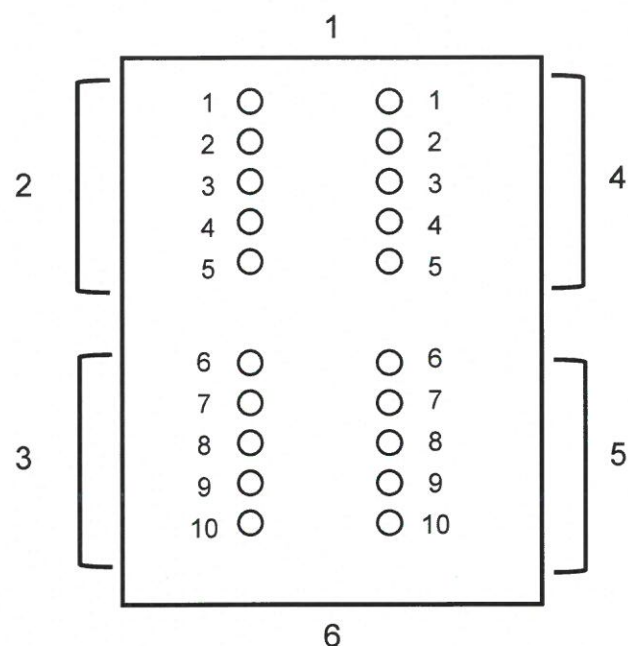
a: Sample absorption rate is 1.60mL/g.

b: Sample absorption rate is 1.00mL/g.

6.2 Test procedure

Fur was generally clipped and rabbits were weighed 4h~18 h before testing on the backs of the rabbits, allowing a sufficient distance on both sides of the spine for injection of the extracts.

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1—Cranial end; 2—0.2 ml injections of polar extract; 3—0.2 ml injections of Non-polar extract; 4—0.2 ml injections of polar solvent control; 5—0.2 ml injections of Non-polar solvent control; 6—Caudal end

Figure 1 Arrangement of injection sites

Intracutaneously inject 0.2 mL of polar extract at the first 5 points on the left side of the rabbit's back with appropriate intervals; then, following the same method, inject 0.2 mL of non-polar extract at the last 5 points.

Similarly, inject 0.2mL of the polar or non-polar solvent control on five sites of the contralateral side of each rabbit.

To observe the instant, (24 ± 2) h, (48 ± 2) h and (72 ± 2) h reaction of local and surrounding skin tissue reactions including erythema, edema and necrosis and recorded.

Table 6-2 Scoring system for intracutaneous (intradermal) reaction

Reaction	Numerical Grading
Erythema and Eschar Formation	
No erythema	0
Very slight erythema (barely perceptible)	1
Well-defined erythema	2
Moderate erythema	3
Severe erythema (beet-redness) to eschar formation preventing grading of erythema	4

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Oedema Formation	
No oedema	0
Very slight oedema (barely perceptible)	1
Well-defined oedema (edges of area well-defined by definite raising)	2
Moderate oedema (raised approximately 1mm)	3
Severe edema (raised more than 1mm and extending beyond exposure area)	4
Maximal possible score for irritation	8
Other adverse changes at the injection sites were recorded and are reported.	

6.3 Evaluation standard

After the (72±2) h grading, all erythema grades plus oedema grades (24±2) h, (48±2) h and (72±2) h are totalled separately for each test sample or blank for each individual animal. To calculate the score of a test sample or blank on each individual animal, divide each of the totals by 15 (3 scoring time points × 5 test or blank sample injection sites). To determine the overall mean score for each test sample and each corresponding blank, add the scores for the three animals and divide by three. The final test sample score can be obtained by subtracting the score of the blank from the test sample score. The requirements of the test are met if the final test sample score is 1.0 or less. Should results be inconsistent between animals or controls not perform as anticipated making interpretation of the overall results questionable, the study can be repeated using three additional rabbits.

7 Test result

Table 7-1 Scores for intracutaneous (intradermal) reaction

Extraction solvent	No.	Results											
		Sample group						Control group					
		24h		48h		72h		24h		48h		72h	
		Ery the ma	Oe de ma	Ery the ma	Oe de ma	Ery the ma	Oe de ma	Ery the ma	Oe de ma	Ery the ma	Oe de ma	Ery the ma	Oe de ma
0.9% NaCl injection	111	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0

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Extraction solvent	No.	Results											
		Sample group						Control group					
		24h		48h		72h		24h		48h		72h	
		Erythema	Oedema	Erythema	Oedema	Erythema	Oedema	Erythema	Oedema	Erythema	Oedema	Erythema	Oedema
0.9% NaCl injection	112	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
	113	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
Final test sample score		0											
Cottonseed Oil	111	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
	112	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
	113	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
Final test sample score		0											

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Table 7-2 Positive sample scores for intracutaneous (intradermal) reaction

Extraction solvent	No.	Results											
		Sample group						Control group					
		24h		48h		72h		24h		48h		72h	
		Erythema	Oedema	Erythema	Oedema	Erythema	Oedema	Erythema	Oedema	Erythema	Oedema	Erythema	Oedema
0.9% NaCl injection	101	3	3	3	3	4	3	0	0	0	0	0	0
		3	3	3	3	4	3	0	0	0	0	0	0
		3	3	3	3	4	3	0	0	0	0	0	0
		2	3	3	3	4	3	0	0	0	0	0	0
		2	3	3	3	4	3	0	0	0	0	0	0
0.9% NaCl injection	102	4	3	4	3	4	3	0	0	0	0	0	0
		4	3	4	3	4	3	0	0	0	0	0	0
		4	3	4	3	4	3	0	0	0	0	0	0
		3	3	4	3	4	3	0	0	0	0	0	0
		4	3	4	3	4	4	0	0	0	0	0	0
	103	4	2	4	3	4	3	0	0	0	0	0	0
		4	2	4	3	4	3	0	0	0	0	0	0
		3	3	4	3	4	3	0	0	0	0	0	0
		4	2	4	3	4	3	0	0	0	0	0	0
		4	3	4	3	4	3	0	0	0	0	0	0
Final test sample score		6.64											
Cottonseed Oil	101	2	3	3	3	3	3	0	0	0	0	0	0
		2	2	3	3	3	4	0	0	0	0	0	0
		2	3	3	3	3	3	0	0	0	0	0	0
		2	2	3	3	3	3	0	0	0	0	0	0
		2	2	3	3	3	3	0	0	0	0	0	0
	102	2	2	3	3	3	3	0	0	0	0	0	0
		3	2	3	3	3	3	0	0	0	0	0	0
		2	2	3	3	3	3	0	0	0	0	0	0
		2	2	3	3	3	3	0	0	0	0	0	0
		3	2	3	3	3	3	0	0	0	0	0	0
	103	2	2	3	3	3	3	0	0	0	0	0	0
		2	2	3	3	3	3	0	0	0	0	0	0
		3	2	3	3	3	3	0	0	0	0	0	0
		2	2	3	3	3	3	0	0	0	0	0	0
		2	2	3	3	3	3	0	0	0	0	0	0
Final test sample score		5.47											
Remarks		Test date: 2024.12.05 to 2024.12.08 The positive data comes from SHA-j-06-24110083-01-BC-01											

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8 Deviations

The test was carried out in strict accordance with the standard operating procedures, and no deviation affecting the validity of the test data occurred.

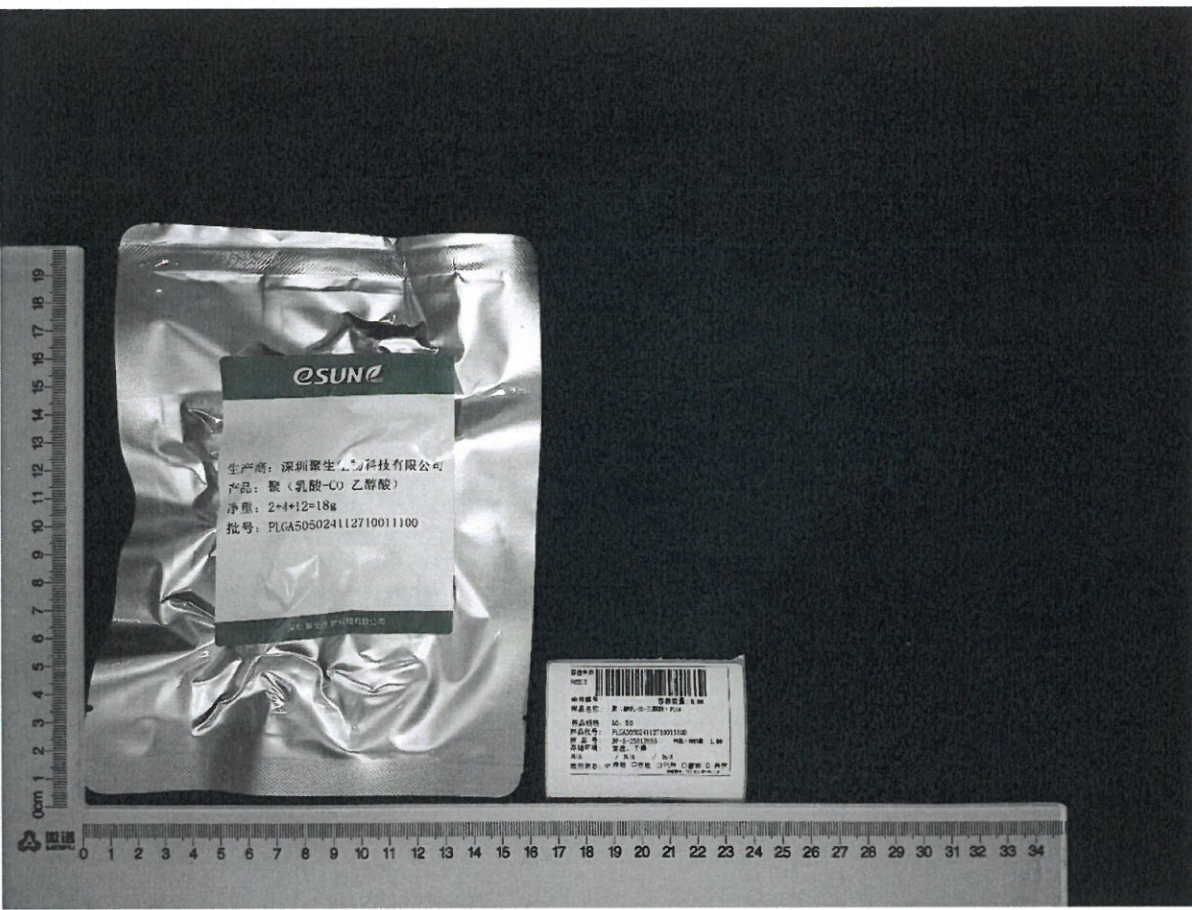
9 Record Preservation

All raw data and records related to this test and copies of the final report are kept in the archives.

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Test report photo page

Photos and descriptions	
	
Test component description	
Random sampling	
Model, specification or other description	
/	

***** End of report *****