

测试报告

编号 : SHIN1612067159PS_CN

日期 : 2017-01-16

页码 : 1 of 6

客户名称:

客户地址:

样品名称 : Zndop 聚乙烯(PE)抗菌母粒

产品规格 : 含 Zndop 抗菌剂 0.2% (体积比) 聚乙烯 (PE) 抗菌母粒

货号或批号 : NPE-2016-3

生产商 :

以上信息及样品由客户提供及确认, SGS 不承担证实客户提供信息的准确性、适当性和(或)完整性的责任。

收样日期 : 2016-12-28

测试开始时间 : 2016-12-28

测试结束时间 : 2017-01-16

测试结果 : 请见下页 (除另有特别说明外, 此报告结果仅对测试样品负责)

通标标准技术服务(上海)有限公司
授权签名

王强

王强

授权签字人

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

SHML 652322

测试报告

编号 : SHIN1612067159PS_CN

日期 : 2017-01-16

页码 : 2 of 6

1. 测试项目: 抗菌性试验

样品描述: 袋装片材

测试方法: QB/T 2591-2003 抗菌塑料—抗菌性能试验方法和抗菌效果, 附录 A: 抗菌塑料—抗菌性能试验方法

试验菌种: 金黄色葡萄球菌 ATCC 6538, 大肠杆菌 ATCC 25922, 肺炎克雷伯氏菌 ATCC 4352, 白色念珠菌 ATCC 10231

测试结果:

实验菌种	实验分组	菌液浓度 (cfu/mL)	接种培养 24 小时后的细菌数 (cfu/片)		抗菌率 (%)
金黄色葡萄球菌 ATCC 6538	第一组	6.0×10^5	样品	<100	>99
			阴性对照样品	1.1×10^7	
			空白对照样品	1.2×10^7	
	第二组	6.0×10^5	样品	<100	>99
			阴性对照样品	1.1×10^7	
			空白对照样品	1.2×10^7	
大肠杆菌 ATCC 25922	第一组	9.3×10^5	样品	<100	>99
			阴性对照样品	8.6×10^7	
			空白对照样品	9.3×10^7	
	第二组	9.3×10^5	样品	<100	>99
			阴性对照样品	8.3×10^7	
			空白对照样品	9.4×10^7	

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

SHML 652323



SGS-CSI (Shanghai) Technical Services (Shanghai) Co., Ltd.
Testing Center for Inspection & Testing Services (Shanghai) Co., Ltd.

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319
中国·上海·浦东康桥东路1159弄69号 邮编: 201319

t (86-21) 61196300 f (86-21) 68183122/68183920 www.sgs.com.cn
t (86-21) 61196300 f (86-21) 68183122/68183920 e sgs.china@sgs.com

测试报告

编号 : SHIN1612067159PS_CN

日期 : 2017-01-16

页码 : 3 of 6

实验菌种	实验分组	菌液浓度 (cfu/mL)	接种培养 24 小时后的细菌数 (cfu/片)		抗菌率 (%)
肺炎克雷伯氏菌 ATCC 4352	第一组	8.1×10^5	样品	<100	>99
			阴性对照样品	6.1×10^7	
			空白对照样品	7.3×10^7	
	第二组	8.1×10^5	样品	<100	>99
			阴性对照样品	6.0×10^7	
			空白对照样品	7.3×10^7	
白色念珠菌 ATCC 10231	第一组	5.3×10^5	样品	<100	>99
			阴性对照样品	4.2×10^7	
			空白对照样品	5.2×10^7	
	第二组	5.3×10^5	样品	<100	>99
			阴性对照样品	4.3×10^7	
			空白对照样品	5.0×10^7	

备注: 阴性对照样品采用一次性灭菌 Ø90mm 的塑料平皿内底, 由 SGS 实验室提供。

空白对照样品为无抗菌性能塑料膜, 由 SGS 实验室提供



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319
中国·上海·浦东康桥东路1159弄69号 邮编: 201319

t (86-21) 61196300 f (86-21) 68183122/68183920 www.sgs.com.cn
t (86-21) 61196300 f (86-21) 68183122/68183920 e sgs.china@sgs.com

测试报告

编号 : SHIN1612067159PS_CN

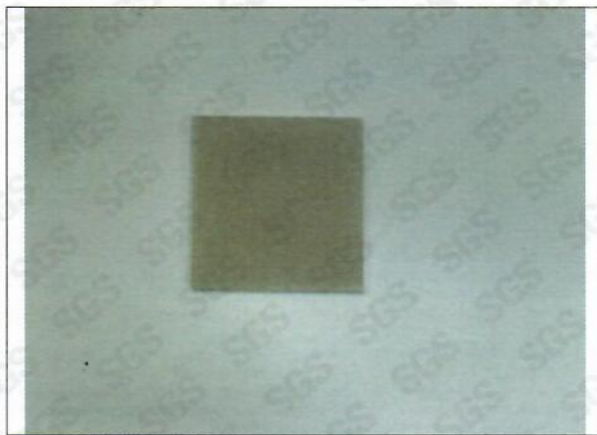
日期 : 2017-01-16

页码 : 4 of 6

结论:

试验菌种名称 (菌种编号)	抗细菌率 (%)	QB/T 2591-2003 附录 A 抗菌性能评价	评价
金黄色葡萄球菌 (ATCC 6538)	>99	1. 抗细菌率≥99%可报告有 强抗菌作用; 2. 抗细菌率≥90%可报告有 抗菌作用	符合: 有强抗菌作用
	>99		
大肠杆菌 (ATCC 25922)	>99		符合: 有强抗菌作用
	>99		
肺炎克雷伯氏菌 (ATCC 4352)	>99		符合: 有强抗菌作用
	>99		
白色念珠菌 (ATCC 10231)	>99		符合: 有强抗菌作用

测试照片:



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

SHML 652325

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319

t (86-21) 61196300

f (86-21) 68183122/68183920

www.sgsgroup.com.cn

中国·上海·浦东康桥东路1159弄69号

邮编: 201319

t (86-21) 61196300

f (86-21) 68183122/68183920

e sgs.china@sgs.com

测试报告

编号 : SHIN1612067159PS_CN

日期 : 2017-01-16

页码 : 5 of 6

2. 测试项目: 抗菌性试验

样品描述: 块状样品

测试方法: 参考 QB/T 2591-2003, 附录 A: 抗菌塑料 - 抗菌性能试验方法

试验菌种: 耐甲氧西林金黄色葡萄球菌 ATCC 33591

测试结果:

实验菌种	实验分组	菌液浓度 (cfu/mL)	接种培养 24 小时后的细菌数 (cfu/片)		抗菌率 (%)
耐甲氧西林金黄色葡萄球菌 ATCC 33591	第一组	6.5×10^5	样品	$< 1.0 \times 10^2$	> 99
			阴性对照样品	6.5×10^6	
			空白对照样品	6.0×10^6	
	第二组	8.1×10^5	样品	$< 1.0 \times 10^2$	> 99
			阴性对照样品	7.4×10^6	
			空白对照样品	5.8×10^6	

备注:

1. 阴性对照样品采用一次性灭菌 $\varnothing 90\text{mm}$ 的塑料平皿内底, 由 SGS 实验室提供。
2. 空白对照样品为无抗菌性能塑料膜, 由 SGS 实验室提供。



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319
中国·上海·浦东康桥东路1159弄69号 邮编: 201319

t (86-21) 61196300 f (86-21) 68183122/68183920 www.sgsgroup.com.cn
t (86-21) 61196300 f (86-21) 68183122/68183920 e sgs.china@sgs.com

测试报告

编号 : SHIN1612067159PS_CN

日期 : 2017-01-16

页码 : 6 of 6

测试照片:



- 该检测项目 2 由 SGS 内部其他实验室执行。
- 该检测报告为由 SGS 通标标准技术服务（上海）有限公司发布的原检测报告 编号：SHIN1612067159PS 日期：2017-01-16 的中文译本，如中英文有差异，概以英文为准。

***** 报告结束 *****

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755)33071443, or email: CN.Doccheck@sgs.com



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

SHML 652327

SGS-CTC (Shanghai) Technical Services (Shanghai) Co., Ltd.
Testing Center: 1159 East Kang Qiao Road, Pudong District, Shanghai, China 201319

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319
中国·上海·浦东康桥东路1159弄69号 邮编: 201319

t (86-21) 61196300 f (86-21) 68183122/68183920 www.sgs.com.cn
t (86-21) 61196300 f (86-21) 68183122/68183920 e sgs.china@sgs.com