## INTERNATIONAL STANDARD

ISO 11930

Second edition 2019-01

## Cosmetics — Microbiology — Evaluation of the antimicrobial protection of a cosmetic product

Cosmétiques — Microbiologie — Évaluation de la protection antimicrobienne d'un produit cosmétique



## ISO 11930:2019(E)



## **COPYRIGHT PROTECTED DOCUMENT**

© ISO 2019

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Fax: +41 22 749 09 47 Email: copyright@iso.org Website: www.iso.org

Published in Switzerland

Contents			Page
Fore	eword		iv
Intr	oductio	n	v
1		e	
	-		
2	Norr	native references	1
3	Tern	ns and definitions	1
4	Prin	ciple	2
5	Preservation efficacy test		3
	5.1	General	
	5.2	Materials, apparatus, reagents and culture media	
		5.2.1 General	
		5.2.2 Materials	
		5.2.3 Diluents	3
		5.2.4 Neutralizer	4
		5.2.5 Culture media	5
	5.3	Microbial strains	6
	5.4	Preparation and enumeration of inocula	7
		5.4.1 General	
		5.4.2 Preparation of bacterial and <i>Candida albicans</i> suspensions	7
		5.4.3 Preparation of <i>Aspergillus brasiliensis</i> spore suspension	8
	5.5	Demonstration of the neutralizer efficacy	9
		5.5.1 Principle	
		5.5.2 Procedure	
		5.5.3 Calculations	9
		5.5.4 Interpretation of results and conclusion on neutralizer efficacy	
	5.6	Determination of the preservation efficacy of the formulation	
		5.6.1 Procedure	
		5.6.2 Counting of colonies	
		5.6.3 Calculations	
	5.7	Interpretation of test results and conclusions	
		5.7.1 Criteria	
		5.7.2 General case (efficacy of the neutralizer is demonstrated for all strains)	13
		5.7.3 Case of formulations for which the efficacy of the neutralizer is not	
		demonstrated for some strains	
	5.8	Test report	13
6	Over	all evaluation of the antimicrobial protection of the cosmetic product	14
	6.1	General	
	6.2	Case 1 — Preservation efficacy test has been performed on the formulation	
	6.3	Case 2 — Preservation efficacy test has not been performed on the formulation	15
Ann	ex A (no	ormative) <b>Decision diagram</b>	16
		ormative) Evaluation criteria for the preservation efficacy test	
		formative) Examples of neutralizers for the antimicrobial activity of	
71111		ervatives and washing liquids	18
Δnn	-	formative) <b>Packaging characteristics</b>	
Ribliography			
Kihl	ingrant	IV	21