

ISO 16187:2025-02 (E)

Footwear and footwear components - Test method to assess antibacterial activity

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	1
5	Safety	2
6	Apparatus	2
7	Reagents and culture medium	2
7.1	General	2
7.2	Water	3
7.3	Nutrient broth (NB)	3
7.3.1	Composition	3
7.3.2	Preparation	3
7.4	Nutrient agar (NA)	3
7.4.1	Composition	3
7.4.2	Preparation	3
7.5	Tryptic soy broth (TSB)	4
7.5.1	Composition	4
7.5.2	Preparation	4
7.6	Tryptone soy agar (TSA)	4
7.6.1	Composition	4
7.6.2	Preparation	4
7.7	Soybean casein digest broth with lecithin and polyoxyethylene medium (SCDLP)	4
7.7.1	Composition	4
7.7.2	Preparation	5
7.8	Sodium chloride solution (physiological saline)	5
7.8.1	Composition	5
7.8.2	Preparation	5
8	Test microorganisms	5
8.1	Test strains	5
8.2	Storage of strains	5
9	Preparation of test inoculums	6
10	Preparation of test samples	6
10.1	General	6
10.2	Test specimen	6
10.3	Pre-treatment of the test specimen	6
11	Test procedure	6
12	Expression of results	7
12.1	Calculation of the number of viable bacteria	7
12.2	Judgement of test effectiveness	7
12.3	Calculation of antibacterial activity ratio	8
13	Test report	8
Annex A (normative) Static challenge test		10
Annex B (normative) Film contact method		11
Annex C (normative) Dynamic challenge test		13
Bibliography		14