

Wet-Resistant Bacterial Penetration Tester GT-RA15



Application:

Wet Bacterial Penetration tester used to measure the penetration performance of bacteria in the liquid when the material is subjected to mechanical friction (the shielding performance of the liquid against bacterial penetration by the mechanical friction chamber); It is mainly used for medical operation, operating clothes and clean clothes, etc.

Standards:

YY/T 0506.2

YY/T 0506.6-2009 operating orders, operating gowns and cleaning garments

for medical personnel and instruments - part 6: test methods for the penetration of wet-resistant microorganisms.
ISO 22610-2018

Principle

The specimen was placed on an AGAR plate, and a piece of fungus plate of the same size was placed on the specimen. Then a piece of high-density polyethylene film with a thickness of about 10 microns was covered. Three layers of materials (the sample was in the bottom, the fungus plate was in the center, and the polyethylene film was in the top) were stuck together with a tapered steel ring.

The test refers to acting on the material in such a way that it can move across the surface of the petri dish, so that the material is subjected to the combined effect of pressure and friction.

This simulation may be applied to the barrier material in the actual application process and the microbial penetration under wet conditions.

The microbes on the bacterial sheet penetrate the test material and migrate to the surface of the agar medium. And colony counting, quantitative evaluation of the penetration properties of the test material.

Key Specification

Model	GT-RA15
Rotation Time of Rotating Table	Automatically controlled by the timer
Test Finger	Guided by the rotating outer wheel, can do lateral reciprocate operations from the center of the rotating AGAR plate to the periphery.
Test Finger Working Pressure to the Material	Adjustable
Material of the Test Parts	Corrosion-resistant stainless steel
Rotary speed	(60 ± 1) RPM
Test Finger Pressure on the Material	(3±0.02) N
The Rotation Speed of the Outer Wheel	5 ~ 6 RPM
The Timer Setting Range	0 ~ 99.99min
Total Weight of Inner and Outer Ring	(800±1) g