

AATCC 147

ANTIBACTERIAL ACTIVITY

ASSESSMENT OF TEXTILE

MATERIALS :

PARALLEL STREAK METHOD

GENERAL PRINCIPLE

The parallel streak method is a qualitative screening test to demonstrate bacteriostatic (antimicrobial) activity of diffusible antimicrobials on treated textile surfaces.

The scope of the test is to demonstrate inhibition of multiplication and growth activity by diffusion of the antimicrobial agent through agar. The test sample is placed in intimate contact with a nutrient agar surface which had been previously streaked with a test organism (e.g. *Staphylococcus aureus*).

After 24 hours incubation, the bacteriostatic activity is demonstrated by a clear are of interrupted growth underneath and along the sides of the test material.

After the sample is tested, measurements are calculated and reported as the bacterial inhibition/growth rating.

BACTERIAL INHIBITION/GROWTH RATING LEGEND	RATING
No growth underneath sample	0
Traces of growth underneath sample (less than 10%)	1
Light growth underneath sample (10-30%)	2
Medium growth underneath sample (30-60%)	3
Heavy growth underneath sample (60-100%)	4

TEST RESULTS

BACTERIAL INHIBITION/GROWTH RATING LEGEND	RATING
No growth underneath sample	0

INTERPRETATION OF THE RESULTS

Sample showed antibacterial activity towards e.g. “Staphylococcus aureus” and no growth under the sample.

The lower the rating the greater the antibacterial resistance of the NOTRAX® Matting product.

The most meaningful interpretation is to compare the Antibacterial Activity Assessment test results of all NOTRAX® Floor Matting products.

All testing of NOTRAX® Floor Matting has been performed by an independent testing laboratory.