

## Viral Penetration ASTM Method F 1671 Final Report

Test Article: NOT - C0563  
Size: L  
Lot: 120915B34 17.00  
Laboratory Number: 672634  
Study Received Date: 21 Jan 2013  
Test Procedure(s): Standard Test Protocol (STP) Number: STP0062 Rev 12

**Summary:** This test method was performed to evaluate the barrier performance of protective materials which are intended to protect against blood borne pathogen hazards. Test articles were conditioned for a minimum of 24 hours at  $21 \pm 5^\circ\text{C}$  and 30-80% relative humidity (RH), and then tested for viral penetration using a  $\Phi\text{X174}$  bacteriophage suspension. At the conclusion of the test, the observed side of the test article was rinsed with a sterile medium and assayed for the presence of  $\Phi\text{X174}$  bacteriophage. The viral penetration method complies with ASTM F1671. All test method acceptance criteria were met.

Number of Test Articles Tested: Outside  
Number of Test Articles Passed: 6  
Test Article Side Tested: 6  
Test Article Preparation: Cut from Palms at Random  
Exposure Procedure: B (Retaining Screen: Woven Polyester Mesh, with >50% Open Area)  
Compatibility Ratio: 2.1  
Environmental Plate Results: Acceptable

### Results:

Test Article Number	Pre-Challenge Concentration (PFU/mL)	Post-Challenge Concentration (PFU/mL)	Assay Titer (PFU/mL)	Visual Penetration	Test Result
1-6	$2.1 \times 10^8$	$2.5 \times 10^8$	$<1^a$	None Seen	Pass
Negative Control	$2.7 \times 10^8$	$2.2 \times 10^8$	$<1^a$	None Seen	Acceptable
Positive Control	$2.1 \times 10^8$	$2.5 \times 10^8$	TNTC <sup>b</sup>	Yes	Acceptable
Blank Control	N/A	N/A	$<1^a$	None Seen	Acceptable

<sup>a</sup> A value of  $<1$  plaque forming unit (PFU)/mL is reported for assay plates showing no plaques.

<sup>b</sup> TNTC = PFU were too numerous to count.

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*29 Jan 2013*  
Study Completion Date