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Cat No. BP752/500S - Toluidine Blue 0.05%+TRITON-X100 0.5% 500ml

Product Type: BOTTLED PRODUCTS

Application- A solution of Toluidine Blue (0.05%) and Triton X-100 (0.5%) is used in Dye penetration tests used to test the seal integrity of sterile barriers. Dye penetration testing is a pass/fail method of detecting defects in packaging seals.

Intended Use –

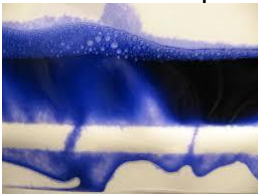
Uses for Porous material according to **ASTM F1929-2015 Standard Test Method** for Detecting Seal Leaks in Porous Medical Packaging by Dye Penetration and **YY/T 0681.4-2010 Testing Methods** for Sterile Medical Device Packaging - Part 4: Dyeing Liquid Penetration Method to Determine the Seal Leakage of Breathable Packaging

Uses for non-porous material according to: **ASTM F3039-2015 Standard Test Method** for Detecting Leaks in Nonporous Packaging or Flexible Barrier Materials by Dye Penetration

the amount of dyeing solution should fundamentally cover the longest side of the package, to a depth of about 5 mm, and channels up to 50µm in the seal can be detected. A 50µm channel can be detected within 5 seconds.

Application of Dye Solution:

Injection Method: Inject the dye solution directly into the sealed edge of the package. This method is precise and commonly used for small or specific areas.



Immersion Method: Submerge the entire package or the sealed part of the package in the dye solution. This method is suitable for detecting leaks in larger areas or along the entire seal.

Overlay Method: Apply the dye solution onto the exterior surface of the package, focusing on the seal area.

This is a destructive test, meaning the tested samples cannot be used afterward.

Composition g/L

Toluidine blue O, Hi-CERT 0.5 g/L

Triton® X-100 for analysis - 4.7 ml/L

Storage: 15-25°C

Appearance: blue

Expiration: 182 days

Warning and Precautions - For professional use only. Follow good microbiological lab practices while handling specimens. Do not use Product if it shows evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration. Avoid freezing and overheating.