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# POLYSORBATE 80 (0.02%)

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## INTENDED USE

Remel Polysorbate 80 (0.02%) is a liquid medium recommended for use as a diluent in microdilution systems.

## SUMMARY AND EXPLANATION

Barry, Jones, and Gavan evaluated various microdilution systems.<sup>1</sup> Polysorbate 80 (0.02%) was found to be useful as a diluent in microdilution trays for antimicrobial susceptibility testing.

## PRINCIPLE

Polysorbate 80 is a surface-active agent that lowers the interfacial tension around bacteria suspended in the medium. This action permits more rapid entry of desired compounds into the cell.

## REAGENTS (CLASSICAL FORMULA)\*

Polysorbate 80 ..... 0.2 g                      Demineralized Water ..... 1000.0 ml

\*Adjusted as required to meet performance standards.

## PROCEDURE

Refer to manufacturer's instructions or recommendations for procedures involving the use of this product with a microdilution system.<sup>2</sup>

## QUALITY CONTROL

All lot numbers of Polysorbate 80 (0.02%) have been tested for microbial content, volume, and aesthetic value only, and have been found to be acceptable. To assure efficacy of the product, functional testing should be performed by the user in accordance with established laboratory quality control procedures, following the manufacturer's procedures for use with their system. If aberrant quality control results are noted, patient results should not be reported.

## BIBLIOGRAPHY

1. Barry, A.L, R.N. Jones, and T.L. Gavan. 1977. Evaluation of the Micro-Media Systems for Quantitative Antimicrobial Drug Susceptibility Testing: A Collaborative Study. Vol. 13, No. 1.
2. Clinical and Laboratory Standards Institute (CLSI). 2006. Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria that Grow Aerobically; Approved Standard. 7<sup>th</sup> ed. M7-A7. CLSI, Wayne, PA.

Refer to the front of Remel *Technical Manual of Microbiological Media* for **General Information** regarding precautions, product storage and deterioration, specimen collection, storage and transportation, materials required, quality control, and limitations.

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**remel**

12076 Santa Fe Drive, Lenexa, KS 66215, USA

General Information: (800) 255-6730    Technical Service: (800) 447-3641    Order Entry: (800) 447-3635

Local/International Phone: (913) 888-0939    International Fax: (913) 895-4128

Website: [www.remel.com](http://www.remel.com)    Email: [remel@remel.com](mailto:remel@remel.com)