



Instructions for Use

MINERAL OIL

Cat. no. Z20	Mineral Oil, Heavy Grade	20ml
Cat. no. Z79	Mineral Oil, Heavy Grade	15ml
Cat. no. Z80	Mineral Oil, Heavy Grade	150ml

INTENDED USE

Hardy Diagnostics Mineral Oil is used as a sealant to create an anaerobic environment for biochemical tests such as decarboxylase and oxidation and fermentation reactions. These products are not for use in surgical or patient applications. These Mineral Oils are strictly for laboratory use.

SUMMARY

Certain biochemical tests, such as decarboxylation and deamination reactions, rely on the organisms ability to metabolize specific substrates in the test media under anaerobic conditions. Mineral oil overlay protects the surface of the media from the air, thus preventing false reactions at the top of the tube. Similarly, an oil overlay in one of two identically inoculated tubes of oxidation/fermentation media allows differentiation of fermenters, oxidizers and non-oxidizers.

FORMULA

Mineral Oil, Heavy	100%
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STORAGE AND SHELF LIFE

Storage: Upon receipt store at 15-30°C. These products should not be used if there are any signs of contamination, deterioration, or if the expiration date has passed. Product is light and temperature sensitive; protect from light, excessive heat, moisture, and freezing.

The expiration dating on the product label applies to the product in its intact packaging when stored as directed. The product may be used and tested up to the expiration date on the product label and incubated for the recommended quality control incubation times.

Refer to the document "[Storage](#)" for more information.

PRECAUTIONS

This product may contain components of animal origin. Certified knowledge of the origin and/or sanitary state of the animals does not guarantee the absence of transmissible pathogenic agents. Therefore, it is recommended that these products be treated as potentially infectious, and handle observing the usual universal blood precautions. Do not

ingest, inhale, or allow to come into contact with skin.

This product is for laboratory use only. It is to be used only by adequately trained and qualified laboratory personnel. Observe approved biohazard precautions and aseptic techniques. All laboratory specimens should be considered infectious and handled according to "standard precautions." The "Guidelines for Isolation Precautions" is available from the Centers for Disease Control and Prevention at www.cdc.gov/ncidod/dhqp/gl_isolation.html.

For additional information regarding specific precautions for the prevention of the transmission of all infectious agents from laboratory instruments and materials, and for recommendations for the management of exposure to infectious disease, refer to CLSI document M-29: *Protection of Laboratory Workers from Occupationally Acquired Infections: Approved Guideline*.

Sterilize all biohazard waste before disposal.

Refer to the document "[Precautions When Using Media](#)" for more information.

Refer to the document [SDS Search](#) instructions on the Hardy Diagnostics' website for more information.

Warning: Mineral Oil is highly flammable. Keep away from heat and flames.

PROCEDURE

Specimen Collection: This product is not intended for primary isolation of patient specimens. This product is used in conjunction with other biochemical tests to identify cultures of isolated organisms.

Method of Use: Overlay tubed media for biochemical testing, (i.e. Decarboxylase, Cat. no. Y41-Y44 and OF Media, Cat. no. Y51-Y71) with one centimeter of Mineral Oil. Use aseptic technique. Consult appropriate references and media technical inserts for detailed descriptions of usage and interpretation of results.⁽¹⁻⁴⁾

If using mineral oil for commercial identification strips, such as API[®], consult the manufacturer's literature.

LIMITATIONS

Medium and light weight Mineral Oils may allow permeation of oxygen.

Mineral Oil which has become acidic can contribute to false-positive results.

Refer to the document "[Limitations of Procedures and Warranty](#)" for more information.

MATERIALS REQUIRED BUT NOT PROVIDED

Standard microbiological supplies and equipment such as loops, pasteur pipets, incinerators, and incubators, etc., as well as serological and biochemical reagents, are not provided.

QUALITY CONTROL

The grade of Mineral Oil used in this product is such that it is free of any impurities that could interfere with test results.

USER QUALITY CONTROL

End users of commercially prepared culture media should perform QC testing in accordance with applicable government regulatory agencies, and in compliance with accreditation requirements. Hardy Diagnostics recommends end users check for signs of contamination and deterioration and, if dictated by laboratory quality control procedures or regulation, perform quality control testing to demonstrate growth or a positive reaction and to demonstrate inhibition or a negative reaction, if applicable. Hardy Diagnostics quality control testing is documented on the certificates of analysis (CofA) available from Hardy Diagnostics [Certificates of Analysis](#) website. In addition, refer to the following document "[Finished Product Quality Control Procedures](#)," for more information on QC or see

reference(s) for more specific information.

PHYSICAL APPEARANCE

Mineral Oil should appear clear and colorless.

REFERENCES

1. Tille, P., et al. *Bailey and Scott's Diagnostic Microbiology*, C.V. Mosby Company, St. Louis, MO.
2. Howard, B.J., et al. 1987. *Clinical and Pathogenic Microbiology* . C.V. Mosby Company, St. Louis, MO.
3. Isenberg, H.D. *Clinical Microbiology Procedures Handbook*, Vol. I, II & III. American Society for Microbiology, Washington, D.C.
4. Koneman, E.W., et al. *Color Atlas and Textbook of Diagnostic Microbiology*, J.B. Lippincott Company, Philadelphia, PA.
5. MacFaddin, J.F. *Biochemical Tests for Identification of Medical Bacteria*, Lipincott Williams & Wilkins, Philadelphia, PA.
6. *Quality Assurance for Commercially Prepared Microbiological Culture Media*, M22. Clinical and Laboratory Standards Institute (CLSI - formerly NCCLS), Wayne, PA.

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[Ordering Information](#)

Distribution Centers:

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