

3M Advanced Materials Division

3M™ Rapid SRB Detection Pouch



Introduction

3M™ Rapid SRB Detection Pouch is a thin-film culture device designed to cultivate and detect sulfate-reducing bacteria (SRB) in water samples. A specially formulated growth medium, combined with oxygen scrubbing and reduction potential modifying chemistry, creates an ideal environment for SRB growth. Conventional SRB testing methods rely on pre-sealed anaerobic environments and/or non-SRB aerobic bacteria to eliminate oxygen, while the rapid SRB detection pouch from 3M functions with a wide variety of sample types and is tolerant of high levels of salt, total dissolved solids and particulate matter.

Product Information (Not for specification purposes.)

Product Description	3M™ Rapid SRB Detection Pouch
Formulation	Modified Postgate B with additional oxygen scrubbing and redox modifying components
Packaging	10 test pouches per resealable foil bag Film grade: plastic foil laminate Seal integrity check: validated with pressure decay testing [ASTM 2054] Terminally irradiated using gamma sterilization
Package Size	Pouch: 3 × 4.5 in. (7.6 × 11.4 cm); 0.1 oz. (3 g) Foil bag: 4.5 × 7.5 in. (11.4 × 19.1 cm); 1.3 oz. (37 g) 50-pack box: 4.7 × 7.7 in. (12 × 19.5 cm); 9 oz. (250 g)
Expiration	Expiry date and lot number indicated on each foil bag
Shelf Life	12 months from date of manufacture
Storage	Recommended storage is 35-45°F (2-8°C).
Intended Use	SRB detection in oil field and cooling tower waters
Use Conditions	Incubation temperature: up to 150°F (65°C) Sample volume: 0.1 fl oz. (3 mL)
Product Performance	Reduction potential: <-110 mV vs H/H ⁺ Growth rate: Color change at 12 hours for 10 ⁶ SRB cfu/mL with an 8-hour delay in the color change for every logarithmic decrease in SRB concentration (validated with <i>Desulfovibrio vulgaris</i> /mL [ATCC 29579] incubated at 30°C (86°F)) Quantitation range: 10 ⁶ – 10 ¹ ; negative growth confirmed in 5 days Sample Pouches (filled) integrity check: validated leak-free up to 10 lbf
Safety Information	Product is non-hazardous before inoculation. After use, pouches may contain microorganisms that could be a potential biohazard. Follow current local, national, and industry standards for disposal. For more information refer to 3M.com/SDS (search for “Rapid SRB Detection”).
More Information	For more information, visit 3M.com/RapidSRBDetection

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98-0050-0365-6 Rev. A