



R & F[®] *Shigella* sp. Chromogenic Plating Medium

A Selective/Differential Chromogenic Plating Medium
For Identifying *Shigella* sp.

Presumptive Positive Colonies of *Shigella* sp. appear as white/clear colonies 1.0 to 3.0 mm diameter with or without a clear ring after 22-28 hours incubation whereas the colonies of other members of the *Enterobacteriaceae* are variously colored.



Shigella sonnei after 22-28 h at 35°C



Citrobacter freundii

Shigella

Enterobacter aerogenes

Shigella and other *Enterobacteriaceae*
after 22-28 h at 35°C

Advantages of R & F[®] *Shigella* sp. Chromogenic Plating Medium

- A chromogenic plating medium that identifies and isolates *Shigella* sp. as white/clear colonies whereas colonies of other members of the *Enterobacteriaceae* are differentiated by various colors
- High specificity and sensitivity
- Easily prepared from powdered plating medium
- Prepared plates are stable for at least 45 days in the dark at 2-8°C

**Selective and Differential Properties of R & F® *Shigella* sp.
Chromogenic Plating Medium incubated at 35°C for 22-28 hours**

Bacteria	Number of Strains	Colonial Morphology
<i>Shigella sonnei</i>	42	White/clear with or without a clear ring, 1-3 mm diameter, one strain of <i>S. sonnei</i> blue-green, and one strain of <i>S. dysenteriae</i> no growth
<i>Shigella dysenteriae</i>	13	
<i>Shigella boydii</i>	12	
<i>Shigella flexneri</i>	13	
<i>Salmonella</i> sp.	3	Yellow, 1-2 mm diameter
<i>Enterobacter aerogenes</i>	2	Green, 1-2 mm diameter
<i>Enterobacter cloacae</i>	1	Green, 1-2 mm diameter
<i>Escherichia coli</i> (generic)	6	Blue-green to yellow, 2-3 mm diameter
<i>E. coli</i> O157:H7	1	Yellow/green, with yellow precipitate
<i>E. coli</i> enteroinvasive	3	White/clear, 2-3 mm diameter
<i>E. coli</i> enteropathogenic	2	Green/yellow, 2 mm diameter, yellow precipitate
<i>E. coli</i> enterotoxigenic	2	Yellow, 1mm diameter, yellow precipitate
<i>Yersinia enterocolitica</i>	1	Yellow, 1-2 mm diameter
<i>Citrobacter freundii</i>	2	Green/Yellow, 1-3 mm diameter
<i>Hafnia alvei</i>	1	Blue-black, 1-3 mm diameter
<i>Morganella morganii</i>	1	White, 1-2 mm diameter
<i>Proteus mirabilis</i> , <i>P. rettgeri</i> , and <i>Pseudomonas aeruginosa</i>	1 each	No growth
<i>Listeria</i> sp. (4 strains) <i>Bacillus cereus</i> , <i>Streptococcus</i> , <i>Enterococcus</i> , and <i>Staphylococcus</i> sp.	8	No growth for all strains of gram-positive organisms tested

References

Restaino, L., E. W. Frampton, W. C. Lionberg, and A. L. Restaino. 2007. Detection of *Shigella* sp. using a selective and differential chromogenic plating medium. Abstract P3-43. IAFP.

Warren, B.R., M.E. Parish, and K.R. Schneider. 2005. Comparison of chromogenic *Shigella* spp. plating medium with standard media for the recovery of *Shigella boydii* and *Shigella sonnei* from tomato surfaces. *J. Food Prot.* 68:621-624.

ORDERING INFORMATION:

**M-0800 R & F® *Shigella* sp.
Chromogenic Plating Medium**

**M-0810 R & F® *Shigella* sp.
Supplement for Plating Medium**

**M-0850 R & F® *Shigella* sp.
Chromogenic Detection System**

R & F Products, Inc.
2725 Curtiss St.
Downers Grove, IL 60515

Phone: 630.969.5300

Fax: 630.969.5303

E-mail: rf@rf-products.net

Web Site: www.rf-products.net