

Catalog No. M-0700

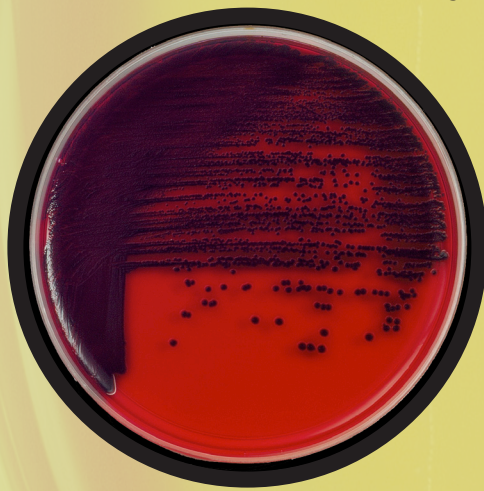


U.S. Patent Applied  
European Patent Applied

# R & F® *Enterobacter sakazakii* (*Cronobacter*) Chromogenic Plating Medium

A Selective/Differential Plating Medium For Identifying  
*Cronobacter sakazakii*

Presumptively positive colonies of *Cronobacter sakazakii* appear as blue-black to blue-gray raised to domed colonies 1.0 to 2.0 mm in diameter with or without colorless halos after 24 hours at 35-37°C, or to increase selectivity, at 41-42°C.



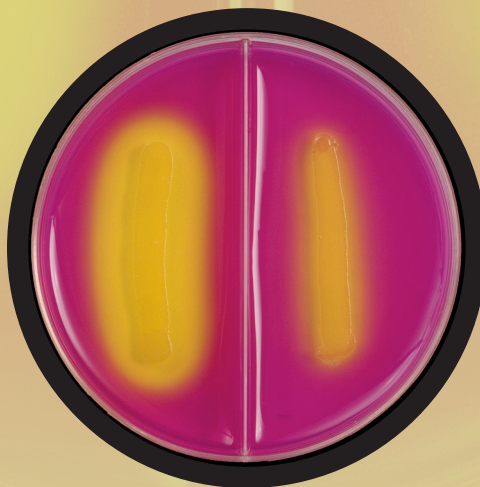
*Cronobacter sakazakii*  
(Pure Culture)

**LISTED IN FDA's  
BAM**



*Cronobacter sakazakii*  
*Salmonella* (Yellow)  
*Escherichia coli* (Green)

Melibiose



Sucrose

*Cronobacter sakazakii* Screening Medium  
After 6 hours at 35°C - Acid Production from both Sugars

## Selective and Differential Properties of R & F® *Enterobacter sakazakii* (*Cronobacter*) Chromogenic Plating Medium Incubated at 35°C for 24 hours

Organism	Colonial Morphology
<i>Cronobacter sakazakii</i> (79 strains)	Blue-black raised to domed colonies 1-2.0 mm diameter ± clear halos; One strain <1.0 mm diameter and one strain blue-gray
<i>Klebsiella aerogenes</i>	Yellow domed colonies 1-1.5 mm diameter with clear halos
<i>Pluralibacter gergoviae</i>	White to light gray domed colonies 1-2.0 mm diameter with clear halos
<i>Pantoea species</i> (2 strains)	White to yellow domed colonies 1-1.5 mm diameter with clear halos
<i>Pantoea</i> (3 strain)	Blue-gray colonies 1.0 mm diameter without clear halo
<i>Escherichia coli</i>	White to green raised colonies 2.0 mm diameter with clear halos
<i>Escherichia coli</i> H <sub>2</sub> S positive	White to yellow domed colonies 2.0 mm diameter with clear halos
<i>Escherichia coli</i> O15:H7 (12 strains)	Clear to white and flat or raised colonies 1-2.0 mm diameter ± clear halos
<i>Escherichia hermannii</i>	Clear to yellow raised or domed colonies 1-1.5 mm diameter ± clear halos
<i>Citrobacter freundii</i>	Clear to white domed colonies 2.0 mm diameter with clear halos
<i>Klebsiella ozaenae</i>	Green to yellow domed colonies 1-1.5 mm diameter with clear halos
<i>Klebsiella pneumoniae</i>	Green to yellow domed colonies 1.0 mm diameter without clear halos
<i>Morganella morganii</i>	Clear flat colonies 1.0 mm diameter without clear halos
<i>Morganella retzgeri</i>	Yellow raised colonies 2.0 mm diameter with clear halos
<i>Providencia stuartii</i>	Clear flat colonies 1-1.5 mm diameter without clear halos
<i>Salmonella</i> (5 species)	White to yellow domed colonies 1-2 mm diameter with clear halos
<i>Shigella dysenteriae</i>	Clear to white domed colonies 1-1.5 mm diameter with clear halos
<i>Shigella flexneri</i>	Clear to white raised colonies 1-1.5 mm diameter with clear halos
<i>Shigella sonnei</i> (3 strains)	Blue-black or blue-gray flat or raised colonies 1.5-2.0 mm diameter with clear halos
<i>Shigella boydii</i>	Clear to white raised colonies 1.0 mm diameter without clear halos
<i>Pseudomonas aeruginosa</i>	Clear flat colonies < 1.0 mm diameter without clear halos
<i>Hafnia alvei</i>	Clear flat colonies 1.0 mm diameter without clear halos
<i>Listeria</i> (4 species), <i>Bacillus cereus</i> ; plus <i>Streptococcus</i> , <i>Enterococcus</i> , and <i>Staphylococcus</i> species	No growth for all Gram-positives tested

### Advantages:

- A chromogenic plating medium that isolates *Enterobacter sakazakii* (*Cronobacter*), whereas similar bacteria are either differentiated or inhibited
- More specific and sensitive than the FDA recommended Violet Red Bile Glucose Agar
- An *Enterobacter sakazakii* Screening Medium for preliminary confirmation - saving time and costs
- Easily prepared from powder with prepared plates stable for at least 60 days in the dark at 2-8°C

### Reference:

Restaino, L., E. W. Frampton, W.C. Lionberg, and R. J. Becker. 2006. A chromogenic plating medium for the isolation and identification of *Enterobacter sakazakii* from foods, food ingredients and environmental sources. *J. Food Prot.* 69:315-322.

Chen et al. 2009. Evaluation of a revised U.S. Food and Drug Administration method for the detection and isolation of *Enterobacter sakazakii* in powdered infant formula: Precollaborative Study. *J. AOAC International.* 92:862-872.

### ORDERING INFORMATION:

M-0700 R & F® *Enterobacter sakazakii* (*Cronobacter*)  
Chromogenic Plating Medium Powder

M-0710 R & F® *Enterobacter sakazakii* (*Cronobacter*)  
Supplement for Plating Medium

M-0750 R & F® *Enterobacter sakazakii* (*Cronobacter*)  
Chromogenic Detection System

M-0760 R & F® *Enterobacter sakazakii* (*Cronobacter*)  
Chromogenic Prepared Plates

M-0720 R & F® *Enterobacter sakazakii* (*Cronobacter*)  
Screening Medium Powder for Preliminary Confirmation

M-0790 R & F® *Enterobacter sakazakii* (*Cronobacter*)  
Screening Medium Detection System

M-0770 R & F® *Enterobacter sakazakii* (*Cronobacter*)  
Screening Prepared Bi-Plates

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