RAPID’ Chromogenic Methods • Food Testing

**Key Benefits of RAPID’**

- **Suitable** with an automatic colony counter
- **Complete results** in 24 hours without confirmation protocol

**Validations**

- Certified NF VALIDATION according to the ISO 16140 standard, as an alternative method to the NF EN ISO 11290-2 reference standard, for the enumeration of Enterobacteriaceae spp.
- Complete results in 24 hours
- Only 1 plate required

**Protocol**

- Enumeration of Campylobacter
- Enumeration of E. coli
- Enumeration of Enterobacteriaceae

- **Enumeration in Less Than 24 Hours**

**The Difference is Clear**

**RAPID’ Chromogenic Methods • Environmental Testing**

**Key Benefits of RAPID’**

- **Easy to read**
- **NF VALIDATION Pending**

**Validations**

- Selective medium for the enumeration of coagulase-negative Staphylococcus spp. (other species) for all food products destined for human consumption. (clear halo around colonies).

**Protocol**

- Enumeration of Staphylococcus aureus
- Enumeration of coagulase-negative Staphylococcus spp.

**Enumeration in Less Than 24 Hours**

**The Difference is Clear**

**RAPID’ Chromogenic Methods • Research**

**Key Benefits of RAPID’**

- **Easy to read**
- **NF VALIDATION Pending**

**Validations**

- Selective medium for the enumeration of coagulase-negative Staphylococcus spp. (other species) for all food products destined for human consumption. (clear halo around colonies).

**Protocol**

- Enumeration of Staphylococcus aureus
- Enumeration of coagulase-negative Staphylococcus spp.
RAPID'Chromogenic Methods • Food Testing

Key Benefits of RAPID' Protocol

• Easy to read
• High selectivity
• Certified NF VALIDATION pending

Key Benefits of RAPID' Chromogenic Methods

• Suitable with an automatic colony counter
• Full results in 24 hours without confirmation

Key Benefits of AL Protocol

• Enumeration of L. monocytogenes
• Only 1 petri dish needed in depth inoculation protocol
• No resuscitation mandatory with BPW
• Results in 48 hours

Identification

Identification of Enterobacteriaceae, Salmonella spp., and other species based on simultaneous detection of two enzymatic activities.

Listeria monocytogenes is confirmed at the 44°C incubation, under BRD 07/05-09/01.

Listeria spp. is confirmed at the 37°C incubation, under BRD 07/05-09/01.

E. coli Coliforms (GAL+/GLUC-) form blue to green colonies, on simultaneous detection of two enzymatic activities: D-Galactosidase (GAL) and D-glucose oxidase (GLUC).

E. coli (GAL+/GLUC+) forms violet to pink colonies.

RAPID'Chromogenic Methods for Food

Enumeration in Less Than 24 Hours

The RAPID'Chromogenic methods are designed for the direct enumeration of microorganisms (bacteria) in food products. The key benefits of these methods include the use of a chromogenic medium that allows for a high level of contrast and easy differentiation of colonies. Results can be obtained within 24 hours without the need for confirmation.

Rapid Streamlined Chromogenic Methods for Food

RAPID'Chromogenic Methods for Food are designed for the rapid and accurate enumeration of microorganisms in food products. These methods provide a streamlined and efficient approach to microbiological analysis, allowing for quick results and compliance with food safety standards.

RAPID'Mono

RAPID'Mono is a selective chromogenic medium used for the direct detection of L. monocytogenes in food products. It is based on simultaneous detection of two enzymatic activities and allows for easy differentiation of colonies within 48 hours. The medium is suitable for samples that require a high level of selectivity and sensitivity.

RAPID'Col 2

RAPID'Col 2 is a selective chromogenic medium designed for the direct enumeration of E. coli and coliforms in food products. It relies on the simultaneous detection of D-Galactosidase (GAL+) and D-glucose oxidase (GLUC-) activities, allowing for rapid and accurate results within 48 hours. The method is approved by AOAC-RI for the detection of coliforms at 37°C, under BRD 07/8-12/04.
RAPID’Chromogenic and Environmental Testing

Key Benefits of RAPID’

- Easy to read: blue colonies + opaque halo
- Only 1 petri dish needed in depth inoculation protocol
- No resuscitation mandatory with BPW
- Dilution step in Fraser ½ or Buffered Peptone Water
- Characteristic blue colonies without phospholipase of L. monocytogenes
- Simultaneous detection of two enzyme activities.

Enterobacteriaceae

- Certified NF VALIDATION according to the ISO 16140 detection stage
- AOAC-RI approved under certificate # 050601
- BRD 07/8-12/04 ISO 4832 reference standard for the enumeration of β-Lactamase negative E. coli at 37°C
- ISO 4832 reference standard for the enumeration of coliforms at 37°C

Campylobacter

- Produces brick-red colonies.
- No confirmation required if reference standard, for the enumeration of thermophilic Campylobacter spp.
- Other species (non-specifically detected for human Campylobacter spp.)

Staphylococcus aureus

- Positive results can be confirmed with a Pastorex™ (clear halo around colonies).
**RAPID’Chromogenic Methods for Food and Environmental Testing**

### Key Benefits of RAPID’Chromogenic Methods:
- **Shorter time to results:** Some methods can detect pathogens in less than 24 hours.
- **Easy to use:** Simple protocols with minimal technical expertise required.
- **Consistent and reliable results:** High sensitivity and specificity for accurate detection.
- **Economical:** Cost-effective with minimal reagent use.

### RAPID’Salmonella
- Easy confirmation: spot on Palcam or RAPID’Select™
- High sensitivity and specificity
- Certified NF VALIDATION according to the ISO 16140 standard

### RAPID’Listeria spp.
- Easy confirmation: spot on Palcam or RAPID’Select™
- Consistent and reliable results
- Easy to use
- Shorter time to results

### RAPID’L. mono
- Easy confirmation: spot on Palcam or RAPID’Select™
- Economical: 1 broth, 1 plate per sample

### RAPID’Campylobacter
- Easy confirmation: spot on Palcam or RAPID’Select™
- Expertise combined with quality
- Economical: 1 broth, 1 plate per sample

### Key Benefits of RAPID’Chromogenic Methods:
- **Shorter time to results:** Some methods can detect pathogens in less than 24 hours.
- **Easy to use:** Simple protocols with minimal technical expertise required.
- **Consistent and reliable results:** High sensitivity and specificity for accurate detection.
- **Economical:** Cost-effective with minimal reagent use.

### Key Benefits of RAPID’Salmonella
- **Easy confirmation by spot on Palcam or RAPID’Select™**
- **High sensitivity and specificity**
- **Certified NF VALIDATION according to the ISO 16140 standard**

### Key Benefits of RAPID’Listeria spp.
- **Easy confirmation by spot on Palcam or RAPID’Select™**
- **Consistent and reliable results**
- **Easy to use**
- **Shorter time to results**

### Key Benefits of RAPID’L. mono
- **Easy confirmation by spot on Palcam or RAPID’Select™**
- **Certified NF VALIDATION according to the ISO 16140 standard**

### Key Benefits of RAPID’Campylobacter
- **Easy confirmation by spot on Palcam or RAPID’Select™**
- **Expertise combined with quality**
- **Certified NF VALIDATION according to the ISO 16140 standard**

### RAPID’Salmonella
- **Easy confirmation by spot on Palcam or RAPID’Select™**
- **High sensitivity and specificity**
- **Certified NF VALIDATION according to the ISO 16140 standard**

### RAPID’Listeria spp.
- **Easy confirmation by spot on Palcam or RAPID’Select™**
- **Consistent and reliable results**
- **Easy to use**
- **Shorter time to results**

### RAPID’L. mono
- **Easy confirmation by spot on Palcam or RAPID’Select™**
- **Certified NF VALIDATION according to the ISO 16140 standard**

### RAPID’Campylobacter
- **Easy confirmation by spot on Palcam or RAPID’Select™**
- **Expertise combined with quality**
- **Certified NF VALIDATION according to the ISO 16140 standard**

### Key Benefits of RAPID’Salmonella
- **Easy confirmation by spot on Palcam or RAPID’Select™**
- **High sensitivity and specificity**
- **Certified NF VALIDATION according to the ISO 16140 standard**

### RAPID’Listeria spp.
- **Easy confirmation by spot on Palcam or RAPID’Select™**
- **Consistent and reliable results**
- **Easy to use**
- **Shorter time to results**

### RAPID’L. mono
- **Easy confirmation by spot on Palcam or RAPID’Select™**
- **Certified NF VALIDATION according to the ISO 16140 standard**

### RAPID’Campylobacter
- **Easy confirmation by spot on Palcam or RAPID’Select™**
- **Expertise combined with quality**
- **Certified NF VALIDATION according to the ISO 16140 standard**
RAPID’Chromogenic Methods for Food and Environmental Testing

Pathogen Detection in 24 Hours After Enrichment

**RAPID’Salmonella**

- **Key Benefits of RAPID’Salmonella Protocol**
  - Easy-to-read chromogenic reaction
  - Detection of Salmonella spp. in a selective chromogenic medium
  - Simultaneous response for all pathogenic serotypes
  - Easy-to-read chromogenic reaction
  - Detection of Salmonella spp. in a selective chromogenic medium
  - Simultaneous response for all pathogenic serotypes

**RAPID’coli O157:H7**

- **Key Benefits of RAPID’coli O157:H7 Protocol**
  - Easy-to-read chromogenic reaction
  - Detection of E. coli O157:H7 in a selective chromogenic medium
  - Simultaneous response for all pathogenic serotypes
  - Easy-to-read chromogenic reaction
  - Detection of E. coli O157:H7 in a selective chromogenic medium
  - Simultaneous response for all pathogenic serotypes

**RAPID’Listeria spp.**

- **Key Benefits of RAPID’Listeria spp. Protocol**
  - Easy-to-read chromogenic reaction
  - Detection of Listeria spp. in a selective chromogenic medium
  - Simultaneous response for all pathogenic serotypes
  - Easy-to-read chromogenic reaction
  - Detection of Listeria spp. in a selective chromogenic medium
  - Simultaneous response for all pathogenic serotypes

**RAPID’Campylobacter**

- **Key Benefits of RAPID’Campylobacter Protocol**
  - Easy-to-read chromogenic reaction
  - Detection of Campylobacter spp. in a selective chromogenic medium
  - Simultaneous response for all pathogenic serotypes
  - Easy-to-read chromogenic reaction
  - Detection of Campylobacter spp. in a selective chromogenic medium
  - Simultaneous response for all pathogenic serotypes

**RAPID’Sakazakii**

- **Key Benefits of RAPID’Sakazakii Protocol**
  - Easy-to-read chromogenic reaction
  - Detection of Cronobacter sakazakii in a selective chromogenic medium
  - Simultaneous response for all pathogenic serotypes
  - Easy-to-read chromogenic reaction
  - Detection of Cronobacter sakazakii in a selective chromogenic medium
  - Simultaneous response for all pathogenic serotypes

**Key Benefits of RAPID’Chromogenic Methods:**

- **Shorter time to results**
  - Results in 24 hours versus standards and classical methods

- **Easy to setup**
  - Simple setup with no special equipment required

- **Economical solutions**
  - Cost-effective compared to traditional methods

- **Consistent and reliable results**
  - High sensitivity and specificity

- **Expertise combined with quality**
  - Easy-to-read chromogenic reaction
  - Detection of Salmonella spp. in a selective chromogenic medium
  - Simultaneous response for all pathogenic serotypes

**RAPID’Chromogenic Methods**

- Salmonella
  - Easy-to-read chromogenic reaction
  - Detection of Salmonella spp. in a selective chromogenic medium
  - Simultaneous response for all pathogenic serotypes

- *E. coli* O157:H7
  - Easy-to-read chromogenic reaction
  - Detection of *E. coli* O157:H7 in a selective chromogenic medium
  - Simultaneous response for all pathogenic serotypes

- Listeria spp.
  - Easy-to-read chromogenic reaction
  - Detection of Listeria spp. in a selective chromogenic medium
  - Simultaneous response for all pathogenic serotypes

- Campylobacter
  - Easy-to-read chromogenic reaction
  - Detection of Campylobacter spp. in a selective chromogenic medium
  - Simultaneous response for all pathogenic serotypes

- Cronobacter sakazakii
  - Easy-to-read chromogenic reaction
  - Detection of Cronobacter sakazakii in a selective chromogenic medium
  - Simultaneous response for all pathogenic serotypes
**Pathogen Detection in 24 Hours After Enrichment**

**RAPID'Salmonella**

- Principle of RAPID'Salmonella: chromogenic medium universally applied for the detection of Salmonella spp. including Salmonella enterica, Salmonella typhimurium, and Salmonella typhi.
- High selectivity forSalmonella spp.
- Easy confirmation by spot on Palcam or RAPID'Plate.
- AOAC-RI approved under certificate # 060701.
- Certified NF VALIDATION according to the ISO 16140 standard, for the detection of Salmonella spp. in all human food products and environmental samples, under BRD 07/12-12/06.
- Simultaneous response for L. mono, S. aureus, and C. sakazakii.
- Positive results in 24 hours after enrichment step.
- Selectable and confirmatory medium to be used in the NF EN ISO 16654 standard protocol MFHPB-30.

**Key Benefits of RAPID'Salmonella Protocol**
- High selectivity.
- Easy confirmation.
- Compliance with ISO 16140 standard.
- Simultaneous response:
  - for L. mono, S. aureus, and C. sakazakii.
  - Positive results in 24 hours after enrichment step.

**RAPID'Col0157H7**

- High selectivity for E. coli O157:H7.
- Shorter time to results: negative results in less than 48 hours.
- Simple: 1 enrichment broth and 1 plate per sample, easy confirmation.
- Fast protocol: negative results in less than 1 hour.
- Economical: 1 broth, 1 plate.
- Certified NF VALIDATION according to the ISO 16140 standard.

**Key Benefits of RAPID'Col0157H7 Protocol**
- High selectivity.
- Shorter time to results.
- Consistent and reliable results.
- Economic benefits.
- Easy-to-see results.

**RAPID'MRSA**

- Principle of RAPID'MRSA: chromogenic medium specifically applied for the detection of MRSA.
- Highly selective for MRSA.
- Easy confirmation by spot on Palcam or RAPID'Plate.
- AOAC-RI approved under certificate # 050701.
- Certified NF VALIDATION according to the ISO 16140 standard.

**Key Benefits of RAPID'MRSA Protocol**
- Very high selectivity.
- Fast protocol: negative results in less than 24 hours.
- Shorter time to results.
- Consistent and reliable results.
- Easy-to-see results.

**RAPID'Cronobacter**

- Principle of RAPID'Cronobacter: chromogenic medium specifically applied for the detection of C. sakazakii.
- High selectivity for C. sakazakii.
- Easy confirmation by spot on Palcam or RAPID'Plate.
- AOAC-RI approved under certificate # 050701.
- Certified NF VALIDATION according to the ISO 16140 standard.

**Key Benefits of RAPID'Cronobacter Protocol**
- Very high selectivity.
- Fast protocol: negative results in less than 24 hours.
- Shorter time to results.
- Consistent and reliable results.
- Easy-to-see results.

**Key Benefits of RAPID'Chromogenic Methods**
- Shorter time to results.
- Consistent and reliable results.
- Easy-to-see results.
- Economic benefits.
- Easy-to-use protocols.
- Rapid results.
- Consistent and reliable results.

**Bio-Rad**

- Expertise in culture media, food and environmental testing.
- Certified NF VALIDATION according to the ISO 16140 standard.
- Easy-to-see results.
- Compliance with quality standards.
- Bio-medical products to culture media, food and environmental testing.

- Bio-Rad knowledge is a valuable resource that will help you improve your results.
RAPID’ Chromogenic Methods • Food Testing

The Difference is Clear

Key Benefits of RAPID’

1. Complete results in 24 hours without confirmation
2. No confirmation required if using L. monocytogenes AL
3. Only 1 petri dish needed in depth inoculation protocol
4. Validation according to the ISO 16140 standard as an alternative method to the NF EN ISO 11290-2 standard
5. Certification by the NF validisation agency
6. Only 1 plate required for the enumeration of coliforms at 37°C, under BRD 07/1-07/93 and BRD 07/7-12/04
7. RAPID’ Plus latex test or on a pre-poured Baird-Parker Staphylococcus aureus plate.
8. Positive results can be confirmed with a Pastorex™ (clear halo around colonies).

RAPID’ Chromogenic Methods

RAPID’Enterobacteria/colace

RAPID’Enterobacteria/colace is a high performance and validated enterobacteria detection system. It combines the speed and simplicity of a single agar plate with a high level of accuracy and specificity, delivering results in 24 hours. This allows for an automated testing method in your food and beverage laboratory.

RAPID’Sap

RAPID’Sap is a high-performance saprophyte detection system. It is based on a long history in the field and has been validated by the NF. The system provides recognition of Staphylococcus aureus, determination of coagulase production and results in 24 hours, without further confirmation.

RAPID’Campylobacter

RAPID’Campylobacter is a chromogenic Campylobacter spp. detection system. It is validated by the NF. The system provides results in 24 hours, without further confirmation.

RAPID’Mono

RAPID’Mono is a selective and chromogenic medium used for the detection of L. monocytogenes. It provides results in 48 hours, without further confirmation.

RAPID’Col 2

RAPID’Col 2 is a selective and chromogenic medium used for the detection of E. coli. It provides results in 48 hours, without further confirmation.

RAPID’Chromogenic Methods • Environmental Testing

Enumeration in Less Than 24 Hours

iQ-Check Kits

iQ-Check Kits offer a fast and easy way to detect pathogenic bacteria in less than 24 hours. They include reagents for the detection of Salmonella, E. coli, L. monocytogenes, Cronobacter, and other pathogens.

Ordering Information

For more information, visit our website or contact your local representative.