



COMPASS[®] *Listeria*

DETECTION AND ENUMERATION OF *LISTERIA MONOCYTOGENES* AND *LISTERIA* SPP.
IN HUMAN FOOD PRODUCTS AND ENVIRONMENTAL SAMPLES



RELIABLE

Validated method by AFNOR Certification according to NF EN ISO 16140 and formulated to NF EN ISO 11290-1/A1 and NF EN ISO 11290-2/A1 standards (Ottaviani Agosti Agar)

RAPID

Negative screening in 40 hours and confirmation of *L. monocytogenes* in only 6 hours

FLEXIBLE AND ECONOMIC

Easily adaptable protocol to all laboratory organizations

PERFORMANCE

Absence of secondary enrichment and excellent selectivity of **COMPASS[®] *Listeria* Agar** for reading and optimal enumeration

EASY

Clear distinction between colonies of *Listeria monocytogenes* (**BLUE WITH** halo) and colonies of *Listeria* spp. (**BLUE WITHOUT** halo)



COMPASS® *Listeria*

COMPASS® *Listeria* method allows the detection and the enumeration of *Listeria monocytogenes* and *Listeria* spp. in human food products and environmental samples



ENUMERATION

(x) g of sample in 9 (x) mL of Half-Fraser Broth¹

DETECTION

Direct plating



Plate 0.1 mL for surface inoculation or 1 mL for pour plate inoculation on COMPASS® *Listeria* Agar



⊕ Incubation
48 ± 2 h²
37 ± 1°C

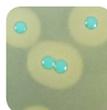
⊕ Incubation
22-28h³ at 30 ± 1°C
or
18-24h³ at 37 ± 1°C⁴

⊕ Incubation
24 ± 2 h⁵
37 ± 1°C

D +2

Reading and/or enumeration of characteristic colonies

D +2



Blue colonies surrounded by an opaque halo : presumption of *Listeria monocytogenes*



Blue colonies without halo : presumption *Listeria* spp.

Confirmation test : re-streak of characteristic colony⁶

CONFIRM' *L.mono* Agar (up to 6 streaks on a single plate)

⊕ Incubation 24 ± 3 h at 37 ± 1°C



Characteristic streak of *L. monocytogenes*

CONFIRM' *L.mono* Broth

⊕ Incubation 6 h at 37 ± 1°C



Presence of *L. monocytogenes*

PALCAM Agar (up to 15 confirmations on a single plate)

⊕ Incubation 24 ± 3 h at 37 ± 1°C



Black halo characteristic of *Listeria* spp.

Validated by AFNOR Certification under the ref. BKR 23/02-11/02 (detection) and BKR 23/05-12/07 (enumeration)

To know

¹ Suspension may also be done in buffered peptone water for the enumeration.

² A first reading may be done after 24 hours of incubation for highly contamination samples, however the result must be given after 48 hours. The agar may be kept up to 48 hours at 2-8°C before reading.

³ Enrichment broth may be kept up to 72 hours at 2-8°C before plating.

⁴ Half Fraser broth must be preheated.

⁵ **Reading may be done after 22 hours of incubation.** It can be prolonged to 48 hours for organization reasons of laboratory. The agar may be kept up to 48 hours at 2-8°C before reading.

⁶ Use a biochemical identification gallery, taken from one isolated colony, without transplanting on nutrient agar.

Please refer to the technical data sheet for more information.

Ordering information

Half-Fraser Broth (Ready-to-use)

BM01608 – 10 vials of 225 mL
BM13308 – 3 flexible bags 3 L
BM13408 – 2 flexible bags 5 L

Half-Fraser Broth (base II + suppl.)

BK133HA – 500 g ; BK133GC – 5 kg
BS03008 – 10 vials qsp 500 mL
BS03208 – 8 vials qsp 2.25 L

Half-Fraser Broth (base + suppl.)

BK173HA – 500 g ; BK173GC – 5 kg
BS05908 – 10 vials of 90 mL
BS06208 – 7 tubes of 10 mL

COMPASS® *Listeria* Agar

BM12308 – 20 Petri dishes (Ø90 mm)
BM12408 – 120 Petri dishes (Ø90 mm)

COMPASS® *Listeria* Agar Kit

BT00808 – 6 vials 200 mL, 6 vials of selective suppl. qsp 200 mL, 6 vials of enrichment suppl. qsp 200 mL

COMPASS® *Listeria* Agar (base + suppl.)

BK192HA – 500 g bottle
BS07008 – Enrichment suppl. 8 vials qsp 1 L
BS07108 – Selective suppl. 8 vials qsp 1 L

CONFIRM' *L.mono* Agar

BM13908 – 10 Petri dishes (Ø90mm)

CONFIRM' *L.mono* Broth

BM16208 – 18 vials

PALCAM Agar

BK145HA – 500 g bottle
BS00408 – Suppl. 10 vials qsp 500 mL
BS04908 – Suppl. 8 vials qsp 2.5 L
BM02008 – 20 Petri dishes (Ø90 mm)

Microgen *Listeria* ID System Kit

BT01408 – Complete kit for 20 tests

BIOKAR Diagnostics

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