LISTERIA ISOLATION SWAB

The Listeria Isolation Swab is designed for use alongside traditional selective methods to improve the quality system and minimise the risk of Listeria contamination. This simple to use diagnostic test can be applied anywhere in the environment and on foodstuffs where the presence of *Listeria spp.* would be critical. *Listeria spp.* and specifically *Listeria monocytogenes* are rapidly becoming the most important pathogen in the Food Industry; regulatory bodies from around the world are insisting that all food products are Listeria free.

Listeria Isolation Swab works on an enhanced Esculin media formulation. The hydrolysis of Esculin gives a distinctive black/brown precipitate. Inhibitors are present in the media that will inhibit the growth of non-Listeria spp. Only *Listeria spp.* will grow within the media to produce a black/brown precipitate due to Esculin hydrolysis (See table).

Instructions for Use

- 1. Peel back wrapper to expose both caps.
- 2. Remove swab and sample test site by rubbing swab over as large an area as practicable.
- 3. Remove cap of culture tube with thumb and forefinger and discard.
- 4. Insert swab in culture tube and push down fully to immerse the swab completely.
- 5. Fill in time, date and site details.
- 6. Incubate at 37° C for up to 48 hours.
- 7. Read results.

A positive result is indicated by a color change from Light Brown Agar to Black/Dark Brown commencing around the bud, any color change is significant. A negative result shows no color change.

8. Record results and dispose of tube. The lid of the tube must NOT be removed after incubation of the sample.

Shelf Life/Expiry Date

Expiry date is 12 months from the month of manufacture and is printed onto the tube label, peel pouch and boxes.

Storage

Listeria Isolation Swabs should be stored in a dry place between +5° C to +25° C. Do NOT freeze.

Sterilisation Method

Listeria Isolation Swabs have been sterilized by irradiation.



....

Battery of Organisms tested against Listeria Isolation Swab

Organism	C.F.U. in	Colour Change
	Sample	
Listeria monocytogenes NCTC 11994	7	Black
Listeria monocytogenes NCTC 5214	19	Black
Listeria monocytogenes NCTC 7973	15	Black
Listeria ivanovii	10	Black
Listeria innocua NCTC 11288	9	Black
Listeria seeligeri	1 x 10⁴	Black
Listeria welshimeri NCTC 11857	1 x 10 ³	Black
Listeria murrayi	1 x 10⁵	Black
Listeria grayi	1 x 10⁵	Black
Staphylococcus aureus NCTC 6571	4 x 10 ⁸ _	No Change
Strep faecalis NCTC 775	1.5 x 10⁵_	No Change
Aeromonas hydrophilla NCTC 1767	1.5 x 10 ⁷	No Change
Bacillus subtilis NCTC 10400	4 x 10 ⁷	No Change
Bacilus pumilis NCTC 10327	1 x 10 ⁷	No change
Bacilus cereus NCTC 10320	2 x 10 ⁶	No change
Escherichia coli NCTC 9001	1 x 10 ⁷	No change
Escherichia coli NCTC 10418	6 x 10 ⁷	No change
Klebsiella pneumoniae	3 x 10 ⁷	No change
Klebsiella aerogenes NCTC 7418	1 x 10 ⁸	No change
Klebsiella aerogenes NCTC 11228	3 x 10 ⁷	No change
Proteus vulgaris NCTC 1683	1 x 10 ⁸	No change
Proteus mirabilis NCTC 841	5 x 10 ⁸	No change
Citrobacter freundii	1.2 x 10 ⁸	No change
Citrobacter diversus	3 x 10 ⁶	No change
Enterobacter agglomerans	1.1 x 10 ⁸	No Change
Morganella morgani	1.4 x 10 ⁸	No Change
Serratia liquefaciens	1 x 10 ⁸	No Change
Serratia marcescens	1 x 10 ⁷	No Change
Yersinia enterolytica	1 x 10 ⁷	No Change
Enterobacter cloacae	3 x 10 ⁷	No Change
Salmonella typhimurium NCTC 74	3 x 10 ⁸	No Change
Shigella flexneri	8 x 10⁵	No Change
Psuedomonas aeruginosa	9 x 10 ⁷	No Change
Pseudomonas putida NCTC 10936	1.5×10^7	No Change
Pseudomonas fluorescens NCTC 10038	$1 \vee 10^{7}$	No Change
Pseudomonas maltophillia NCTC 102157	6×10^7	No Change
Pseudomonas vesicularis NCTC 10900	4×10^{6}	No Change
Pseudomonas cepacia NCTC 10743	0.5 407	No Change
Pseudomonas putrefaciens NCTC 10735	3.5×10^7	No Change
Candida albicans	3 x 10 ⁶	No Change
	2 x 10 ⁶	

Applying the identical procedure, for complementary detection of Coliform only the use of HyServe product, No. 1000101 (Coliform Swab, 25 pcs/box) is recommended.

Product ID	Description / size of the kit	
1000899	Compact Dry LS (Listeria), 40 plates/box	
1001013	Compact Dry LS (Listeria), 240 plates/box	
1002881	Compact Dry LS (Listeria), 920 plates/box	

Alternative Products of type Compact Dry (Plates):