

Caution: For Research Use. This product is intended for animal research only and not for use in humans. Not for human or animal therapeutic or diagnostic use.

Listeria monocytogenes
L. monocytogenes ATCC23074 (Xen19)

Product No.: 119237

Material Provided: 1 Agar Plate
Storage Conditions: -80°C

In vitro Characteristics

Genetic Characteristics

Listeria monocytogenes Xen 19 was derived from the parental strain *L. monocytogenes* ATCC23074, which was deposited by Stanford University as AT-25. *L.monocytogenes* Xen 19 possesses a stable copy of the modified *Photorhabdus luminescens lux* operon at a single integration site on the bacterial chromosome.

Growth Characteristics

L. monocytogenes Xen 19 grows well in Brain-Heart Infusion (BHI) broth at 37°C. It may also be grown on Trypticase Soy Agar (TSA). *L. monocytogenes* Xen 19 may be grown selectively on LB agar containing 200 mg/mL kanamycin.

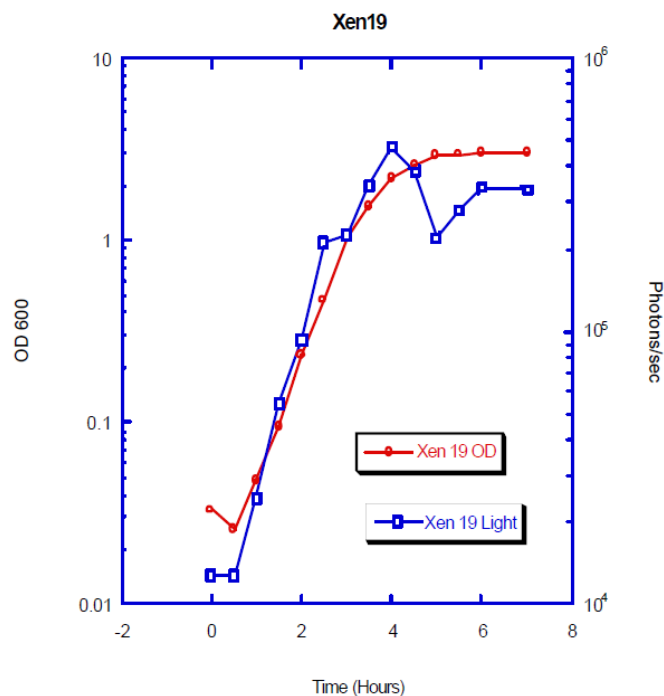
Colonial Morphology

On TSA + 5% sheep blood plates, *L. monocytogenes* Xen 19 appears as small (approx 0.5mm), circular, gray colonies with large zones of beta hemolysis.

Growth Curve

Log-phase growth can be achieved after 1-3 hours of subculture in BHI broth at 37°C, shaking at 200 rpm. For these broth culture conditions, an absorbance measurement at 600 nm (against a BHI blank) of 1 is roughly equivalent to 4x10⁸

cfu/ml of *L. monocytogenes* Xen 19 and the relative light intensity is 0.005 photons/sec/cell.



Virulence Factors

Hemolysins: β-hemolytic on TSA + 5% sheep blood

Bacitracin: Susceptible

Biochemical Profile

A biochemical profile was obtained for *Listeria monocytogenes*–Xen19 using the api 20 Strep system available from bioMérieux.

Sugar Utilization		Other Tests	
Ribose		Voges Proskauer	
Arabinose		Hippurate	
Mannitol		Esculin	
Sorbitol		Pyrrolidone Arylamidase	
Lactose		α -galactosidase	
Trehalose		β -glucuronidase	
Inuline		β -galactosidase	
Raffinose		Alkaline Phosphatase	
Starch		Leucine Arylamidase	
Glycogen		Arginine Dihydrolase	

References

1. Park and Stewart. 1990 Gene 94:129-32.

Product Information

Warranty

PerkinElmer warrants that cells will be viable upon shipment from PerkinElmer for a period of thirty days, provided they have been properly stored and handled during this period.

Disclaimers

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PerkinElmer, Inc.
940 Winter Street
Waltham, MA 02451 USA
P: (800) 762-4000 or
(+1) 203-925-4602
www.perkinelmer.com



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