

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* 10403S (Serotype 1/2a wild-type strain) (Xen32)

Product No.: 119238

**Material Provided:** 1 Agar Plate

**Storage Conditions:** -80°C

#### *In vitro* Characteristics

##### Genetic Characteristics

*Listeria monocytogenes* Xen32 was derived from the parental strain *L. monocytogenes* 10403S (Serotype 1/2a wild-type strain). *L. monocytogenes* Xen32 possesses a stable copy of the modified *Photorhabdus luminescens lux* operon at a single integration site on the bacterial chromosome.

##### Growth Characteristics

*L. monocytogenes* Xen32 grows well in various media including Brain-Heart Infusion (BHI) and Trypticase Soy Broth (TSB) at 37°C with aeration. *L. monocytogenes* Xen 32 may be grown selectively on LB agar containing 200 µg/ml kanamycin.

##### Colonial Morphology

On TSA + 5% sheep blood plates, *L. monocytogenes* Xen 32 appears as small (approx 0.5mm), circular, gray colonies with large zones of beta hemolysis.

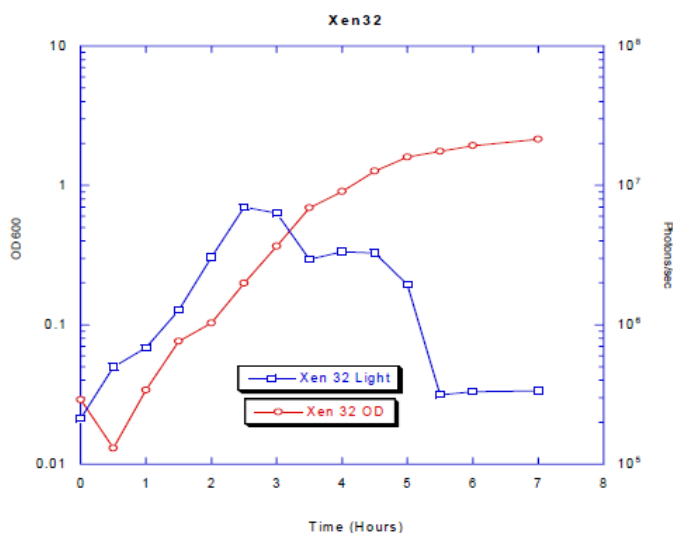
##### Virulence Factor

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

**Bacitracin:** Susceptible

##### 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 the above broth culture conditions, an absorbance measurement at 600nm (against a BHI blank) of 1 is roughly equivalent to 1x10<sup>9</sup> cfu/ml of *L. monocytogenes* Xen32 and the relative light intensity is 0.01 photons/sec/cell.



##### References

1. Science, Vol. 303, Issue 5659, Feb. 6, 2004, pp. 851-853

## 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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