

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.

Yersinia enterocolitica

Y. enterocolitica 91A 1854 clinical isolate (Xen24)

Product No.: 119232

Material Provided: 1 Agar Plate

Storage Conditions: -80°C

In vitro Characteristics

Genetic Characteristics

Yersinia enterocolitica-Xen24 was derived from the parental strain *Y. enterocolitica* 91A 1854, a clinical isolate from California Department of Public Health. *Y. enterocolitica*-Xen24 possesses a stable copy of the *Photorhabdus luminescens lux* operon on the bacterial chromosome.

Growth Characteristics

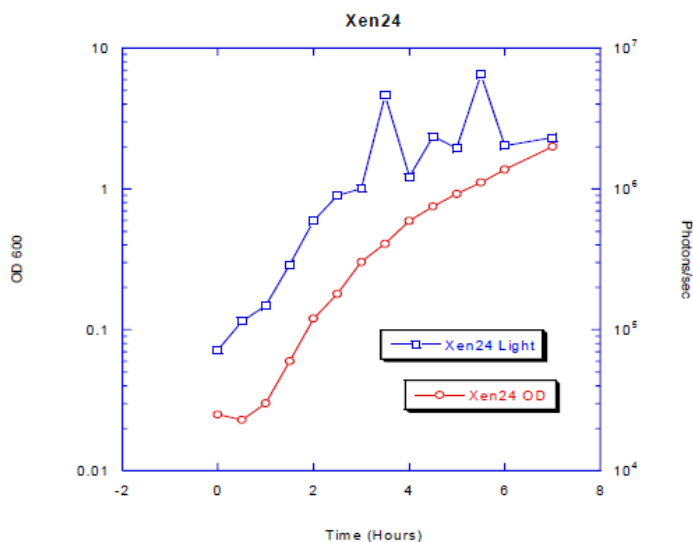
Y. enterocolitica-Xen24 grows well in Luria Bertani (LB) medium at 37°C under ambient aeration. *Y. enterocolitica*-Xen24 may also be grown selectively on LB agar containing 30µg/mL kanamycin.

Colonial Morphology

On LB plates, *Y. enterocolitica*-Xen24 appears as medium (2mm), cream, circular, colonies after 24 hours incubation at 37°C.

Growth Curve

Log-phase growth can be achieved after 1.5-3 hours of subculture in LB broth at 37°C, shaking at 200 rpm. For the above broth culture conditions, an absorbance measurement at 600nm (against a LB blank) of 1.0 is roughly equivalent to 4×10^8 cfu/mL of *Y. enterocolitica*-Xen24 and the relative light intensity is 0.19 photons/sec/cell.



Product Information

Biochemical Profile

A biochemical profile was obtained for *Yersinia enterocolitica*-Xen24 using the api 20E system available from bioMérieux.

Sugar Fermentation /Oxidation		Other Tests	
Glucose	+	β-galactosidase	+
Mannitol	+	Arginine Dihydrolase	-
Inositol	+	Lysine Decarboxylase	-
Sorbitol	+	Ornithine Decarboxylase	-
Rhamnose	-	Citrate Utilization	-
Sucrose	+	H ₂ S Production	-
Melibiose	-	Urease	+
Amygdalin	+	Tryptophan Deaminase	-
Arabinose	-	Indole Production	-
		Voges Proskauer	-
		Gelatinase	-
		Oxidase	-

Antibiotic Susceptibility

Disk Diffusion Data: Disk diffusion tests were performed according to methods outlined in the NCCLS Approved Standard M2-A7.

Kirby-Bauer Disk Diffusion Test	
Sensitive to:	Resistant to:
Chloramphenicol 30	Ampicillin 10
Sulfamethoxazole/ Trimethoprim	Carbenicillin 100
Tetracycline 30	Cephalothin 30

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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