TECHNICAL DATA SHEET

Light Producing Microorganisms

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.

Shigella dysenteria

S. dysenteria 88A 6205 clinical isolate (Xen27)

Product No.: 119231

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

In vitro Characteristics

Genetic Characteristics

Shigella dysenteria–Xen27 was derived from the parental strain *S. dysenteria* 88A 6205, a clinical isolate from California Department of Public Health. *S. dysenteria*-Xen27 possesses a stable copy of the *Photorhabdus luminescens lux* operon on the bacterial chromosome.

Growth Characteristics

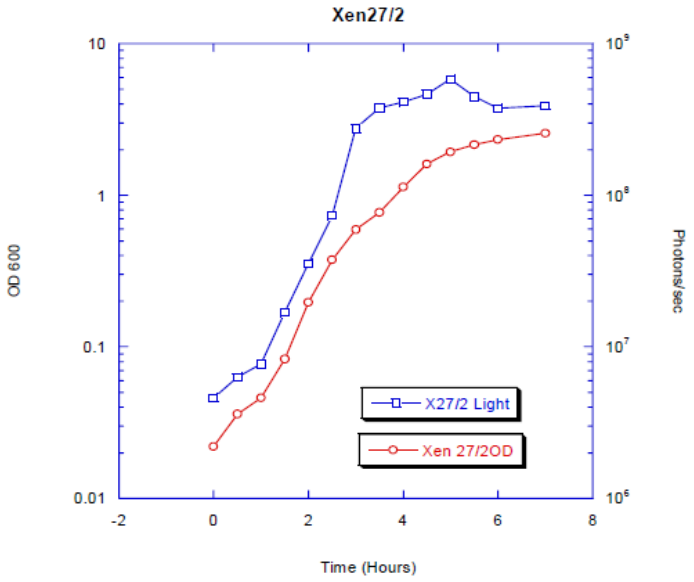
S. dysenteria-Xen27 grows well in Luria Bertani (LB) medium at 37ºC under ambient aeration. *S. dysenteria*-Xen27 may also be grown selectively on LB agar containing 30µg/mL kanamycin.

Colonial Morphology

On LB plates, *S. dysenteria*-Xen27 appears as small (1.5mm), cream, smooth, circular colonies after 24 hours incubation at 37°C.

Growth Curve

Log-phase growth can be achieved after 1 to 2.5 hours of subculture in LB broth at 37ºC, 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 $3.2x10^8$ cfu/mL of *S. dysenteria*-Xen27 and the relative light intensity is 10.3 photons/sec/cell.



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Biochemical Profile

A biochemical profile was obtained for *Shigella dysenteria*-Xen27 using the api 20E system available from bioMérieux.

Sugar Fermentation /Oxidation	
Glucose	+
Mannitol	-
Inositol	-
Sorbitol	-
Rhamnose	-
Sucrose	-
Melibiose	-
Amygdalin	-
Arabinose	-

Other Tests	
β-galactosidase	-
Arginine Dihydrolase	-
Lysine Decarboxylase	-
Ornithine Decarboxylase	-
Citrate Utilization	-
H2S Production	-
Urease	-
Tryptophan Deaminase	-
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:
Ampicillin 10	
Carbenicillin 100	
Chloramphenicol 30	
Sulfamethoxazole/ Trimethoprim	
Tetracycline 30	

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

This product is sold for *in vivo* animal research use only and is not for use in any diagnostic procedures. Excluding purchases by authorized PerkinElmer distributors, this product is sold for use by the original purchaser and is not for resale.

For more information, please visit our website: ww.perkinelmer.com/microorganisms.

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