

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.

Escherichia coli *E. coli* WS2572 (Xen14)

Product No.: 119223

Material Provided: 1 Agar Plate

Storage Conditions: -80°C

In vitro Characteristics

Genetic Characteristics

Escherichia coli-Xen14 was derived from the parental strain *Escherichia coli* WS2572, a clinical isolate from Weihenstephan Culture Collection. *E. coli*-Xen14 possesses a stable copy of the *Photorhabdus luminescens lux* operon on the bacterial chromosome.

Growth Characteristics

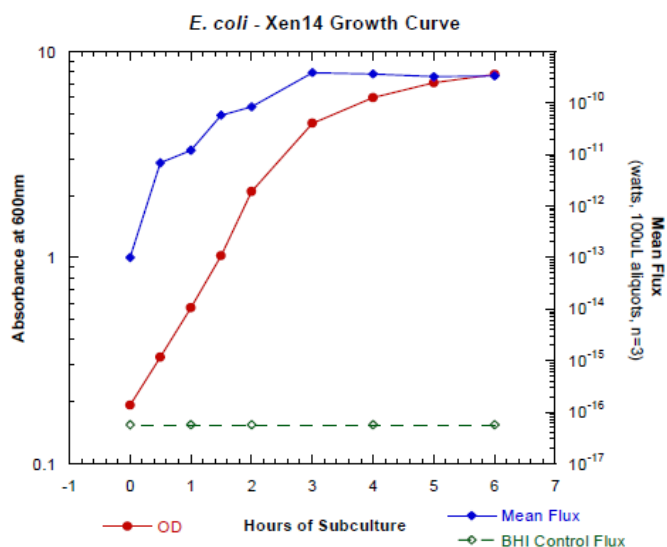
E. coli-Xen14 grows well in Luria Bertani (LB) medium at 37°C under ambient aeration. *E. coli*-Xen14 may also be grown selectively on LB agar containing 30µg/mL Kanamycin.

Colonial Morphology

On LB plates, the *E. coli*-Xen14 appears as medium (~2mm), translucent, conical colonies after 24 hours incubation at 37°C.

Growth Curve

Log-phase growth can be achieved after 1 to 1.5 hours of subculture in LB broth at 37°C, shaking at 150-200 rpm. For the above broth culture conditions, an absorbance measurement at 600nm (against a LB blank) of 1.0 is roughly equivalent to 1.1×10^9 cfu/mL of *Escherichia coli*-Xen14 and the relative light intensity is 1.01 photons/sec/cell.



Biochemical Profile

A biochemical profile was obtained for *E. coli-Xen14* using the api 20E system available from bioMérieux.

Sugar Utilization		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	Carbenicillin 100
Tetracycline 30	Kanamycin 30
Trimethoprim/ Sulfamethoxazole	Streptomycin 10
Gentamicin 10	Cephalothin 30
	Ampicillin 10

References

1. Infection & Immunity, Aug. 2005, 4512-4521
2. Antimicrobial Agents & Chemotherapy, Jan. 2001, p129-137

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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