

Bioware™ Microorganism – *Pseudomonas aeruginosa* Xen41

In vitro Characteristics

Genetic Characteristics

Pseudomonas aeruginosa-Xen41 was derived from the parental strain *Ps. aeruginosa* PAO1, obtained from Pseudomonas Genetic Stock Center (PGSC). *P. aeruginosa* Xen41 possesses a single stable copy of the *P. luminescens luxCDABE* operon on the bacterial chromosome. Xen41 should be stored at -80°C

Growth Characteristics

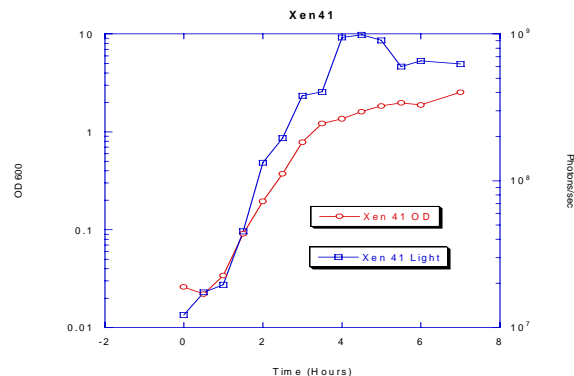
P. aeruginosa-Xen41 grows well in Luria Bertani (LB) medium at 37°C under ambient aeration. *P. aeruginosa*-Xen41 may also be grown selectively on LB agar containing 60 µg/mL Tetracycline.

Colonial Morphology

On LB plates, *P. aeruginosa*-Xen41 appears as large (3-5mm), yellow-green, irregularly round, mucoid colonies with butyrous centers after 24 hours incubation at 37°C.

Growth Curve

P. aeruginosa-Xen41 displays peak bioluminescence during log-phase growth. Log-phase growth can be achieved after 1 to 2.5 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 1.8×10^9 cfu/mL of *P. aeruginosa*-Xen41 and the relative light intensity is 2.5 photons/sec/cell.



Contact Information:

If you have any questions regarding these cell lines, please contact Caliper at 508-497-6592 or e-mail: reagents@caliperls.com