DATA SHEET

Jena Bioscience

LEXSY Cultivation Kit T7-TR

contains LEXSY host T7-TR
for inducible expression

Cat. No.	Amount
LT-111	1 Kit

For research use only! Not intended for human or animal diagnostic or therapeutic uses.

Shipping: shipped on dry ice/on gel packs

Storage Conditions: store components as indicated on individual labels

Shelf Life: use immediately!

Description:
The LEXSY Cultivation Kit T7-TR was developed for initial cultivation and establishment of *Leishmania tarentolae* laboratory strain T7-TR in suspension culture.

Content:
3 vials with 1.6 ml each of frozen glycerol stocks of LEXSY host T7-TR (*Leishmania tarentolae* strain T7-TR expressing bacteriphage T7 RNA polymerase and TET repressor)
Upon arrival the glycerol stocks must be stored at -80°C or inoculated into LEXSY BHI provided! Do not freeze-thaw the stocks!

50 ml LEXSY BHI liquid medium complete
For initial inoculation, contains Hemin, Nourseothricin (NTC), LEXSY Hygro and PenStrep
Store at 4 °C, stable for 2 weeks

37 g LEXSY BHI powder
2x 18.5 g for preparation of 2x 500 ml LEXSY BHI growth medium
Store at ambient temperature, stable for 3 years

2 ml Hemin 500x stock solution
0,25% solution of porcine Hemin in 30% Triethanolamine for 1 L LEXSY BHI medium
Store at 4°C in the dark, stable for 6 months

5 ml Pen-Strep stock solution, 200x
10.000 units of penicillin (base) and 10.000 µg of streptomycin (base)/ml in 0.85% saline, for 1 L LEXSY BHI medium
Store at -20°C, stable for 6 months

1 ml Nourseothricin (NTC) and 1 ml LEXSY Hygro
for maintenance of T7 polymerase and TET repressor genes.
Store at -20°C, stable for 6 months

4 cryo vials with each 0.4 ml 80% glycerol, sterile
sterile, for preparation of glycerol stocks
Store at ambient temperature, stable for 6 months

3 culture flasks for 10 ml medium
For initial inoculation.

Reactivation of LEXSY host:
Thaw glycerol stock on ice and inoculate the entire content of the vial into 10 ml of LEXSY BHI medium. Incubate at 26°C and dilute as required.

Preparation of LEXSY BHI growth medium:
Dissolve 37 g/l LEXSY BHI powder in deionized water and autoclave 15 min at 121°C. Add Hemin, Nourseothricin (NTC), LEXSY Hygro and PenStrep. Store at 4°C and use within two weeks.

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Preparation of glycerol stocks:
Add 1.2 ml of growing culture (ca. $6x10^7$ cells/ml) to one vial with 0.4 ml 80% glycerol, mix, incubate 10 min at RT, 1 h on ice and o/n at -20°C. Transfer to -80°C. Strains can be stored this way for several years.