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 general laboratory use. 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: See individual components

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 each

(*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 the provided LEXSY BHI liquid medium. Do not thaw and re-freeze 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 stock solution, 500x
0,25 % solution of porcine Hemin in 30 % Triethanolamine for 1 L LEXSY BHI medium
Store at 4 °C in the dark, stable for 12 months

5 ml Pen-Strep stock solution, 200x
10.000 units/ml of penicillin (base) and 10.000 µg/ml of streptomycin (base) in 0.85 % saline, for 1 L LEXSY BHI medium.
Store at -20 °C, stable for 12 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 12 months

4 cryo vials with 0.4 ml 80% glycerol each, sterile
For preparation of glycerol stocks.
Store at ambient temperature, stable for 12 months

3 culture flasks for 10 ml medium
For initial inoculation.

Biosafety level:
1, Non-pathogenic

Source of wild type organism:
Tarentola annularis

Reactivation of LEXSY host:
Thaw glycerol stock on ice for ca. 20 minutes and inoculate the entire

LEXSY Cultivation Kit T7-TR

contains LEXSY host T7-TR
for inducible expression

content of the vial into 10 ml of LEXSY BHI medium in one of the provided cell culture flasks. Incubate at 26 °C in the dark and dilute as required.

Preparation of LEXSY BHI growth medium:
Dissolve 37 g/l LEXSY BHI powder in deionized water and autoclave max. 15 min at 121 °C. Add Hemin, Nourseothricin (NTC), LEXSY Hygro and PenStrep to 1x final concentration. Store at 4 °C and use within two weeks.

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