

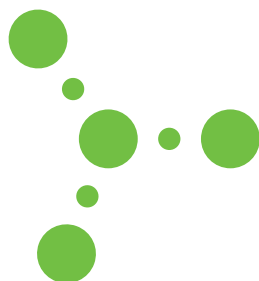
LEXSY

eukaryotic protein expression system



- ▶ *Robust, fast-growing unicellular host*
- ▶ *Eukaryotic protein synthesis and modification*
- ▶ *Constitutive or inducible protein expression*
- ▶ *Yields of up to 300 mg/L of culture*

* Crystals of hu superoxide dismutase purified from LEXSY



Jena Bioscience

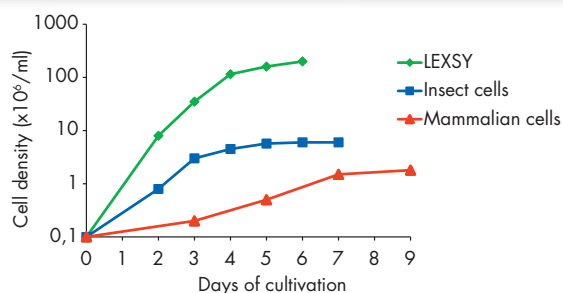
www.jenabioscience.com

In six weeks from gene to protein

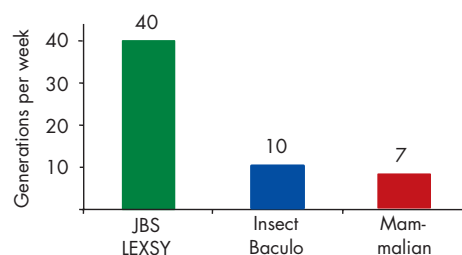
LEXSY is the proprietary expression system of Jena Bioscience based on the protozoan host *Leishmania tarentolae*.



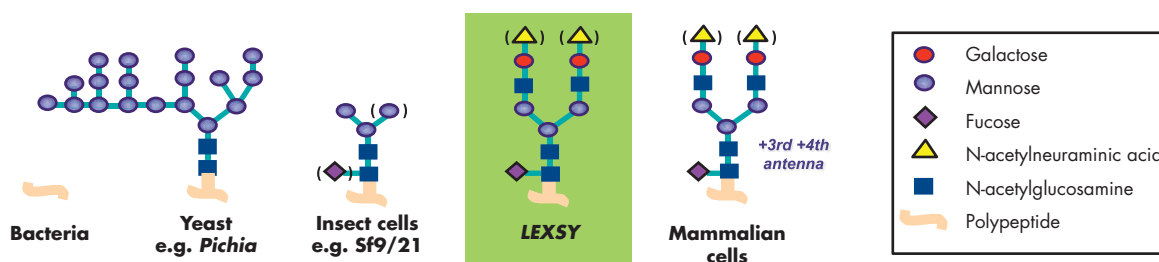
LEXSY grows to higher densities than insect and mammalian cells



LEXSY grows faster than insect and mammalian cells



LEXSY performs mammalian-type glycosylation



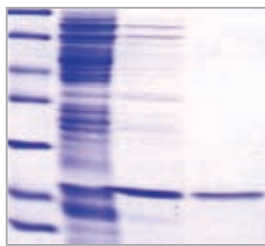


Constitutive

Inducible

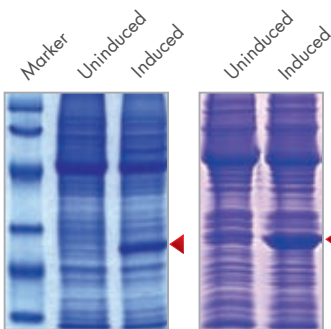
Intracellular expression

Marker
Cell extract
Ion exchange
Gel filtration



Protein A

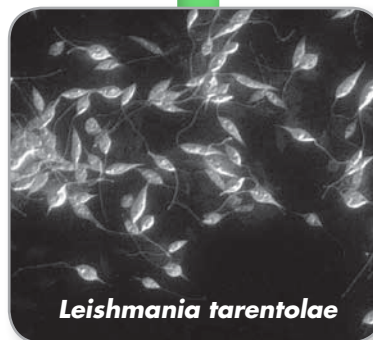
Two-step purification from lysed cells to purity > 95%



Protein D

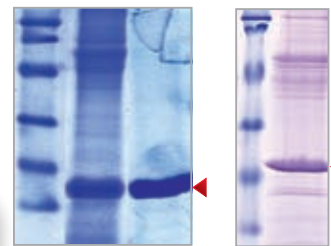
Protein E

Up to 100-fold induction by addition of tetracycline



Secretory expression

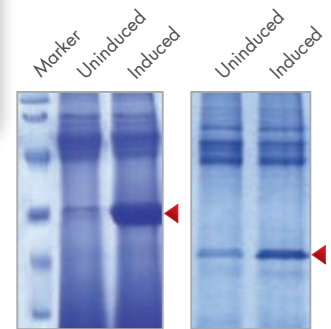
Marker
Medium
NinTA purif
Marker
Medium



Protein B

Protein C

Protein of interest efficiently secreted to culture medium



Protein F

Protein G

Upon induction protein of interest becomes major component of culture medium

▶ Protein of interest

Directly contact our people for more detailed information



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Reinhard studied Biochemistry-Microbiology at the Moscow State Lomonosov University. After several years of work as a scientist at the pharmaceutical company JENAPHARM, Reinhard did his PhD thesis in expression of heterologous genes at the Institute for Microbiology and Experimental Therapy in Jena. He continued working in this field as scientist and group leader at the Institute for Molecular Biology at Friedrich-Schiller-University Jena. Reinhard joined Jena Bioscience in 1998 as project leader for the establishment and commercialization of the novel eukaryotic protein expression system "LEXSY".



Express your proteins with LEXSY

Licensing information: The commercial use of LEXSY requires a license from Jena Bioscience. Academic and public institutions performing not-for-profit research may use the LEXSY systems without a license. For further information please contact us at: expression@jenabioscience.com

Product	Cat. No.	Amount	Price
LEXSY Expression Kits			
LEXSYcon2 Expression Kit for constitutive expression contains vector pLEXSY-sat2 or pLEXSY-neo2 or pLEXSY-hyg2 or pLEXSY-ble2	EGE-1300sat EGE-1300neo EGE-1300hyg EGE-1300ble	1 Kit	960 €
LEXSInduce2 Expression Kit for inducible expression contains vector pLEXSY_I-neo2 or pLEXSY_I-ble2	EGE-1400neo EGE-1300ble	1 Kit	2250 €
LEXSY Plating Kits			
LEXSY Plating Kit comfort components for solid medium, LEXSY BHI- and fetal-calf-serum-based with nitro-cellulose membranes, spatula, dishes & serological pipettes	ML-451	for 40 plates	800 €
LEXSY Plating Kit core components for solid medium, LEXSY BHI- and fetal-calf-serum-based without nitrocellulose membranes, spatula, dishes & serological pipettes	ML-452	for 40 plates	650 €
LEXSY Vectors			
pLEXSY-ble2 constitutive Expression Vector antibiotic selection of transfectants with LEXSY Bleo	EGE-231	5 µg	480 €
pLEXSY-hyg2 constitutive Expression Vector antibiotic selection of transfectants with LEXSY Hygro	EGE-232	5 µg	480 €
pLEXSY-neo2 constitutive Expression Vector antibiotic selection of transfectants with LEXSY Neo	EGE-233	5 µg	480 €
pLEXSY-sat2 constitutive Expression Vector antibiotic selection of transfectants with LEXSY NTC	EGE-234	5 µg	480 €
pLEXSY_I-ble2 inducible Expression Vector antibiotic selection of transfectants with LEXSY Bleo	EGE-241	5 µg	480 €
pLEXSY_I-neo2 inducible Expression Vector antibiotic selection of transfectants with LEXSY Neo	EGE-242	5 µg	480 €
Antibiotics			
LEXSY NTC sterile ready-to-go stock solution, 100 mg/ml	AB-101S	1 ml	40 €
	AB-101L	5 ml	160 €
LEXSY Bleo sterile ready-to-go stock solution, 100 mg/ml	AB103S	1 ml	80 €
	AB-103L	5 ml	320 €
LEXSY Hygro sterile ready-to-go stock solution, 100 mg/ml	AB-104S	1 ml	80 €
	AB-104L	5 ml	320 €
LEXSY Neo sterile ready-to-go stock solution, 50 mg/ml	AB-105S	1 ml	40 €
	AB-105L	5 ml	160 €
LEXSY Tet inducer sterile ready-to-go stock solution, 10 mg/ml, for inducible protein expression in LEXSY host T7-TR	AB-106S	1 ml	5 €
	AB-106L	10 ml	40 €

For LEXSY media & supplements, please view
www.jenabioscience.com/LEXSY

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