Nourseothricin

Jena Bioscience
Building Blocks of Life

Nourseothricin (also known as clonNAT) is the prime selection antibiotic for recombinant organisms.

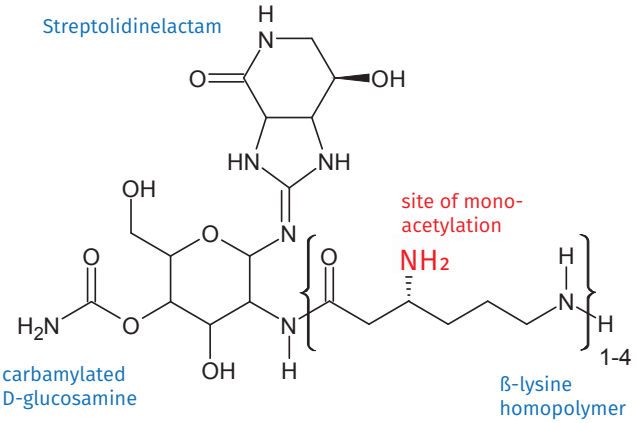

Figure 1

General structure of Nourseothricin, which is a natural mixture of Streptothricins C, D, E and F containing 1, 2, 3 or 4 ß-lysine residues, respectively. The resistance protein acetylates the Nourseothricin amino group (red), resulting in its inactivation.

- Preferred selection antibiotic for genetically modified
  - Mammalian cells
  - Yeast and filamentous fungi
  - Protozoa and microalgae
  - Gram-positive and Gram-negative bacteria
  - Cyanobacteria
  - Plants ... and many more
- Long-term stable as powder (10 years) and solution (2 years)
- Highly soluble in water (1g/ml)
- Low or no background: Resistance protein is localized intracellularly and cannot be degraded in the cell culture medium
- No cross-reactivity with other antibiotics

Nourseothricin is now available at reduced bulk prices

	Cat-No.	Size	Price [EUR/ml] or [EUR/g]	Price [EUR]
Stock Solution, sterile, ready-to-use, 100 mg/ml	AB-101S	1 ml	40	40
	AB-101L	5 ml	32	160
	AB-101-10ML	10 ml	30	300
	AB-101-50ML	50 ml	24	1.200
Powder	**AB-102L**	**1 g**	**171**	**171**
	AB-102XL	**5 g**	**164**	**820**
	AB-102-25G	**25 g**	**145**	**3.620**
	AB-102-100G	**100 g**	**127**	**12.750**

Price Cut

Nourseothricin

Selection antibiotic in molecular biology (also known as clonNAT)

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Category	Species/cell line	Selection concentration [µg/ml]
Mammalian cells	HMEC	>50
	HEK293T	>50
	BT549	>50
	U2OS	>50
Yeast	Ashbya gossypii	50-200
	Candida sp.	100-450
	Hansenula sp.	50-100
	Lipomyces starkeyi	30
	Pichia sp.	50-200
	Saccharomyces cerevisiae	50-200
	Schizosaccharomyces sp.	50-100
	Zygosaccharomyces sp.	5-100
Other Ascomycota	*Acremonium chrysogenum*	25
	Aspergillus sp.	20-120
	Cochliobolus sp.	60-300
	Colletotrichum sp.	100-400
	Cryphonectria parasitica	100
	Fusarium sp.	25-200
	Neurospora crassa	20-200
	Penicillium sp.	40-200
	Rhynchosporium commune	4
Basidiomycota	*Cryptococcus sp.*	100-200
	Rhodosporidium kratochvilovae	200
	Schizophyllum commune	8-20
	Ustilago maydis	75-150
	Xanthophyllomyces dendrorhous	30
Protozoa	*Crithidia bombi*	200
	Leptomonas seymouri	250
	Leishmania sp.	25-125
	Phytomonas serpens	100
	Plasmodium falciparum	>150
	Toxoplasma gondii	500
	Trypanosoma sp.	1-200
Microalgae	*Amphora coffeaeformis*	300
	Chaetoceros sp.	100-500
	Ostreococcus tauri	1500
	Phaeodactylum tricornutum	50-250
Gram-negative bacteria	*Agrobacterium tumefaciens*	100
	Escherichia coli	50
	Francisella tularensis	50
	Pseudomonas aeruginosa	100
Gram-positive bacteria	*Bacillus subtilis*	50
	Enterococcus faecium	500
	Mycobacterium smegmatis	25
	Staphylococcus aureus	50
Streptomycetes	*Streptomyces lividans*	100
Cyanobacteria	*Synechocystis sp. PCC 6803*	50
Plants	*Arabidopsis thaliana*	50-200
	Daucus carota	100
	Lotus corniculatus	50
	Nicotiana tabacum	100
	Oryza sativa	200

Nourseothricin is applicable to more than 100 organisms & cell lines

Find more organisms and cell lines online

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