

Protein Expression Solubiliser

Liquid rich medium for *E.coli* to increase solubility of proteins during recombinant expression

Product	Cat#	Package size
Ready-to-use rich medium for <i>E.coli</i> cultures	C4293.0500	500mL
Ready-to-use rich medium for <i>E.coli</i> cultures	C4293.2500	5 x 500mL

Description

During recombinant expression in the common host *E.coli*, many proteins have the tendency to aggregate as insoluble inclusion bodies. Since these proteins are not in the native and mostly desired conformation, difficult and time consuming denaturation and renaturation steps are necessary to obtain a soluble protein with correct conformation. Unfortunately results as well as the final yield of these renaturation procedures cannot be predicted. Therefore, the expression of a soluble and correctly folded recombinant protein is most likely desired.

The medium "solubiliser" often increases the amount of soluble protein during recombinant expression. But the positive effect is also dependent on the recombinant protein and the expression strain used. For that reason we recommend small scale expression experiments to optimise expression conditions individually (e.g. different growing temperatures).

In comparison to standard medium, some strains of *E.coli* do grow much slower in "solubiliser". This effect is sometimes even stronger at low growing temperature (room temperature, 21°C).

If you use "solubiliser", be sure to inoculate always with a freshly grown culture (e.g. 1:100 with a culture grown in LB).

Preparation

"Solubiliser" is a ready-to-use formulation. Only the desired antibiotics have to be added to the medium.

Please make sure that you inoculate always with a freshly grown culture (e.g. 1:100 with a culture grown in LB).

Storage

"Solubiliser" ready-to-use solution can be stored at +4°C for 3 months.

"Solubiliser" ready-to-use solution can be stored at -20°C for 6 months.

Related products

Product	Cat#	Package size
Powdered rich medium for <i>E.coli</i> cultures	C4294.0001	1 L
Powdered rich medium for <i>E.coli</i> cultures	C4294.0005	5 L

For research use only.