

Cell-free *E.coli* lysates HiYield + T7 RNA polymerase

#Cat: NB- NB-40-00202-1	Size: 350 µL
#Cat: NB- NB-40-00202-2	Size: 4x350ul
#Cat: NB- NB-40-00203-1	Size: 350 µL
#Cat: NB- NB-40-00203-2	Size: 4x350ul
#Cat: NB- NB-40-00204-1	Size: 330 µL
#Cat: NB- NB-40-00204-2	Size: 4x330ul

Lot # HY05067

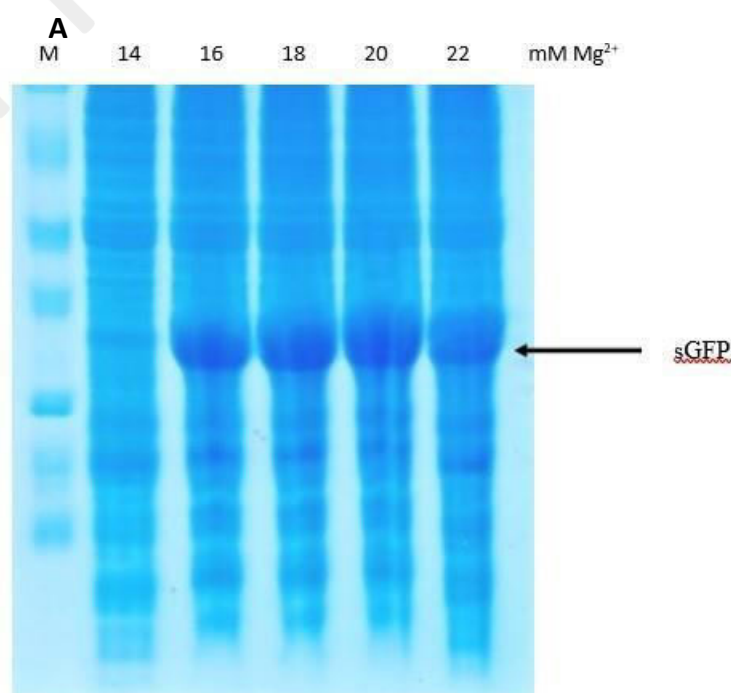
Product	Catalog No.	Package size
Cellfree <i>E. coli</i> lysate - For 1 ml cell-free reaction volume	NB-40-00202-1	350 µL
Cellfree <i>E. coli</i> lysate HiYield - For 1 ml cell-free reaction volume	NB-40-00203-1	350 µL
Cellfree <i>E. coli</i> lysate HiYield-T7 - For 1 ml cell-free reaction volume	NB-40-00204-1	330 µL

Product Description

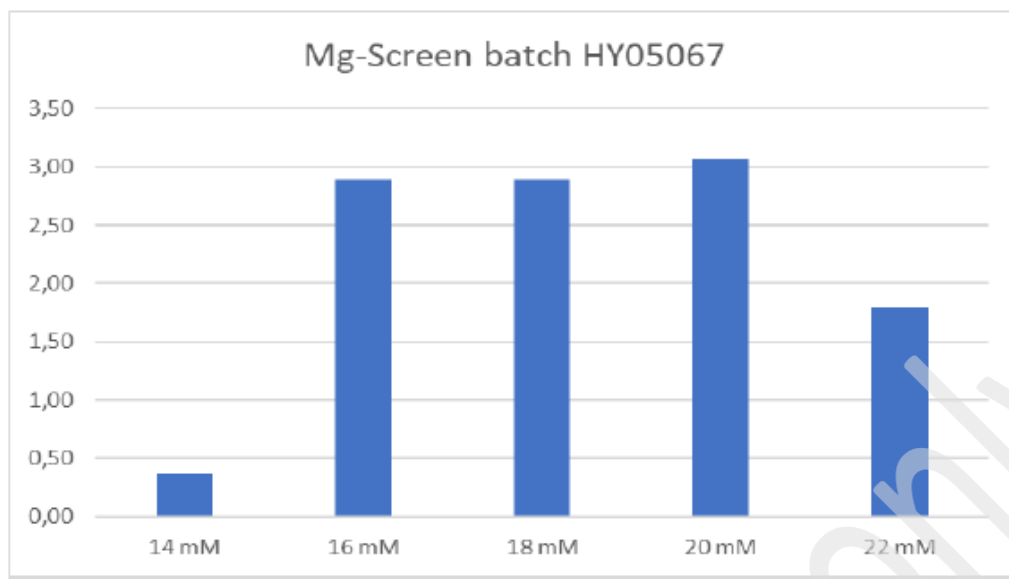
E. coli lysates are offered for the expression of recombinant proteins in cell-free reactions. Various components are required to supplement these reactions. The novel HiYield-T7 lysate already contains the T7 RNA Polymerase, thereby eliminating the need to add this expensive component. Please refer to the protocol for details.

Aliquots 330 µL, for 1 mL cell-free expression reaction volume.
Reactions can be linearly scaled from 25 µL to several mL.

Storage -80



B



Assessment of optimal Mg²⁺ concentrations in cell-free *E. coli* lysate HY –T7 as judged by absorption of superfolder GFP.; Highest yields were obtained in reactions containing 20 mM Mg²⁺. A, Expression of superfolder GFP at different Mg²⁺ concentrations, SDS page analysis, B quantification of GFP concentrations (mg/ml) at different Mg²⁺ concentrations.

Quality Control

Each batch of cell-free lysate is carefully tested for expression of the reference protein GFP. Reactions are performed overnight at 30°C, with a variation of magnesium ions added to the mix. Samples are analyzed by SDS-PAGE. In optimized conditions, up to 6 mg GFP per mL of reaction mix can be obtained.

For cell-free protein expression protocols, please visit our webpage at: www.neo-biotech.com.

For cell-free expression of membrane proteins, Neo Biotech offers nanodisc scaffold proteins, assembly kits and pre-assembled nanodisc. Also available are a range of ultrapure detergents and affinity purification matrices. See www.neo-biotech.com for details.

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