

Product information

QF 24 V4
V1 Feb 2020

Inclusion Body Wash Buffer

Catalog #: PL032
Size: 10ml
Storage: -20°C*

*: Product will be shipped with ice pack. Check storage conditions.
Products have one year expiration from time of purchase.

Product Description:

As many as 70-80% of proteins produced by recombinant techniques in E. coli form inclusion bodies (i.e. protein aggregates). Apart from protein of interest, the inclusion body contains impurities, such as RNA, DNA, Lipopolysaccharide. To prepare high purity inclusion bodies from lysed E.coli cells, cell debris is separated from inclusion bodies by centrifugation. The inclusion body wash buffer then washes cell pellet and removes RNA, DNA, Lipid, lipoprotein in the presence of denaturant and mild detergents.

Storage and Transportation:

Upon receipt, store Solution A, Solution B and Powder C at -20°C.

Composition:

Solution A	10 ml
Solution B	100 µl
Powder C	0.4 mg

Procedures:

1. Completely dissolve Powder C in Solution A and keep on ice.
2. Collect inclusion body from about 3-5 ml induced E.coli culture by centrifuge at 12000 rpm for 15 minutes, sonicate and discard supernatant.

NOTE: Estimate the amount of inclusion body prep by subtracting the weight of the centrifuge tube from the total weight. Use 100 ml of the Inclusion Body Wash Buffer for per gram of wet inclusion body pellet.

3. Add 0.5 ml Solution A, 5 µl Solution B into inclusion body pellet, vortex and keep on ice about 15 minutes.
4. Centrifuge at 12000 rpm for 5 minutes, discard supernatant.
5. Wash inclusion body pellet with 0.5 ml DDH₂O, repeat once more.
6. Suspend the pellet in an appropriate amount of Inclusion body solubilization reagent such as 8M Urea or 6M Guanidine hydrochloride by either vigorous vortex mixing or by pipetting until the suspension is homogenous, then carry out protein refolding step.

Notes:

1. If Solution A precipitates at the bottom of bottle, please warm to 37°C to completely dissolve them.
2. After completely dissolving Powder C in Solution A, please store unused portion at 4°C till use.



PRODUCTS ARE INTENDED FOR BASIC SCIENTIFIC RESEARCH ONLY.
NOT INTENDED FOR HUMAN OR ANIMAL USE.