

# LYTRAP RESIN

(Cat. No. RS-3302 and RS-3316)

For research use only.

## 1. About BIOMEDAL LYTAG System.

**LYTAG** is a new generation of products designed for the expression and purification of proteins in *E. coli*. The new system is based on a reduced version of the affinity chromatography purification tag C-LYTAG. LYTAG has shorter amino acid sequence (136 aa, 15.21 KDa) than C-LYTAG.

LYTAG, as well as C-LYTAG, specifically interacts with LYTRAP resin, a simple, efficient and low cost chromatographic support.

The new **LYTAG** incorporates an alpha helix polypeptidic sequence which acts as a spacing element between LYTAG and the fused protein, reducing the potential steric interference between both regions and facilitating elimination of the tag by enterokinase digestion.

## 2. Description.

PRODUCT	CAT.No.	FORMAT
LYTRAP Resin	RS-3302	30 ml
LYTRAP Resin	RS-3316	250 ml

## 3. General Protocol.

**LYTRAP** is supplied pre-swollen in 20% ethanol. Pack the required amount of resin (8 ml LYTRAP per litre of culture) in an appropriate column and equilibrate with 5-10 volumes of column equilibration buffer (20 mM sodium phosphate pH 7.0). Be sure the buffer replaces completely the ethanol. For LYTAG protein purification follow the protocol described in "C-LYTAG Purification System" (Biomedal, KT-3246)

### NOTES:

- During shipping and storage, the resin will settle. We recommend thoroughly resuspending it before pipetting.
- The column never can be dry. If this happens, you must resuspend the resin in buffer and repeat the packing.

#### 4. Characteristics of LYTRAP Resin.

Binding capacity	0.5-3 mg/ml
Bead structure	6% highly cross-linked agarose
Bead size	45-165 µm
Recommended flow rate	1 ml/min
pH stability (<2 h)	1-14
pH stability (> 2 h)	3-12
Antimicrobial agent	Ethanol 20%
Storage	4°C for long time periods

#### 5. Related products.

Product	Format	Cat.No.
LYTRAP resin	30 ml	RS-3302
LYTRAP resin	250 ml	RS-3316
LYTRAP spin columns	10 units	RS-3319
LYTRAP spin columns	25 units	RS-3320
LYTRAP spin columns	100 units	RS-3321
Purification columns 2.5ml (empty)	5 units	RS-3322
C-LYTAG Purification System	1 kit (5 purifications)	KT-3246
C-LYTAG Purification System	1 Kit	KT-3412
LYTAG-Spin Plus Kit	1 Kit	KT-3412

For more information,  
please visit our WEBSITE  
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