

## ***PROTEIN-STAMPS***

### PURIFICATION, STORAGE AND DELIVERY OF RECOMBINANT PROTEINS

#### **Description**

Biomedal has developed an easy method for the immobilization of recombinant proteins onto membranes. The system can be used for recombinant proteins fused to the poly-histidine tag (His-tag) or to the choline binding domain LYTAG. *Protein-Stamps* are designed for the purification and non-refrigerated storage and transport of proteins. The system is based on the reversible, affinity absorption of the target proteins to different supports, including Ni-NTA and Ni-IDE derivatized membranes for His-tag fused proteins, as well as membranes with affinity for polypeptides fused to LYTAG. This technology protects the integrity of the stored material and allows safe, non-refrigerated delivery of recombinant proteins. Proteins and polypeptides can be stored at room temperature for several weeks, without integrity or activity loss. Once delivered, the protein or peptide can be easily eluted by using a simple buffer.

#### **Applications**

- Affinity chromatography purification of proteins fused to His-Tag or LYTAG
- Long-term storage of tagged proteins at room temperature without lyophilisation
- Delivery of tagged proteins at room temperature between collaborating laboratories by regular mail (e.g. research laboratory- protein service provider company)

#### **Advantages**

- Compatible with highly efficient tags His-tag and LYTAG
- Economical and convenient way for the immobilization and purification of proteins from cell lysates
- Once immobilized, proteins can be stored or delivered at room temperature, while keeping their integrity and activity
- The system avoids using stabilizer agents (glycerol, detergents, BSA) that could interfere with the final desired application
- Conventional mail envelopes or boxes can be used with no need for dry or blue ice-based delivery systems

## Licensing Opportunity

- Easy to use, it only requires two buffers (immobilization buffer and elution buffer) and a compatible membrane support
- *Protein-Stamps* simplify and reduce the costs of protein sample delivery, eliminating the need for insulating boxes with dry ice or cold accumulators.

### Development Stage

The method is ready-to-market and samples are available. The proof of concept has been established with several proteins.

### Patent Situation

Title: Peptide and Protein Preservation Method

PCT No.: PCT/ES2008/000579

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### Technology Offer

Biomedal offers an exclusive license to interested companies.

### Contact

Biomedal S.L. – Life Science Division

Maria Romero, M.Sc.

Sevilla (Spain)

Tel.: +34-954 08 12 76

Email: [bls@biomedal.com](mailto:bls@biomedal.com)

[www.biomedal.com](http://www.biomedal.com)