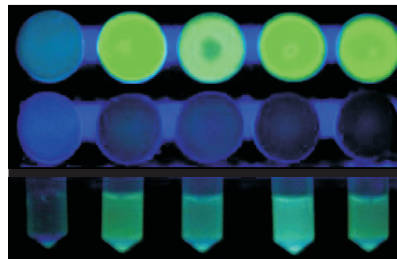


SIMPLE PURIFICATION, STORAGE AND DELIVERY OF RECOMBINANT PROTEINS

Biomedal has developed a simple technology for the immobilization of recombinant proteins onto membranes. The system can be used with recombinant proteins fused to the poly-histidine tag (His-Tag) or to the choline binding domain LYTAG. Prote-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. The protein can be easily eluted by the recipient scientist or technician by using a simple buffer. Proteins and polypeptides can be stored at room temperature for several weeks, without integrity or activity loss.

Prote-Stamps simplify and reduce the costs of protein sample delivery, eliminating the need for insulating boxes with dry ice or cold accumulators.



Applications:

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

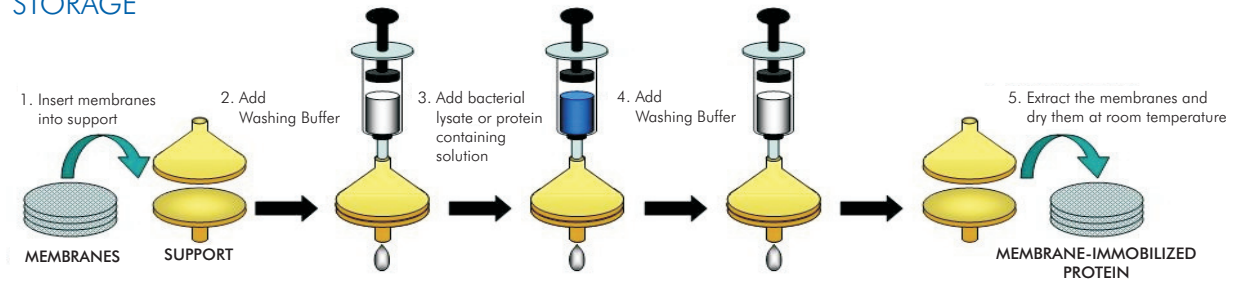
Advantages:

- Compatible with highly efficient tags His-Tag and LYTAG
- Economical and convenient, can be used for protein immobilization/purification 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.
- Simple, it only requires two buffers (Immobilization buffer and Elution buffer) and a compatible membrane support.

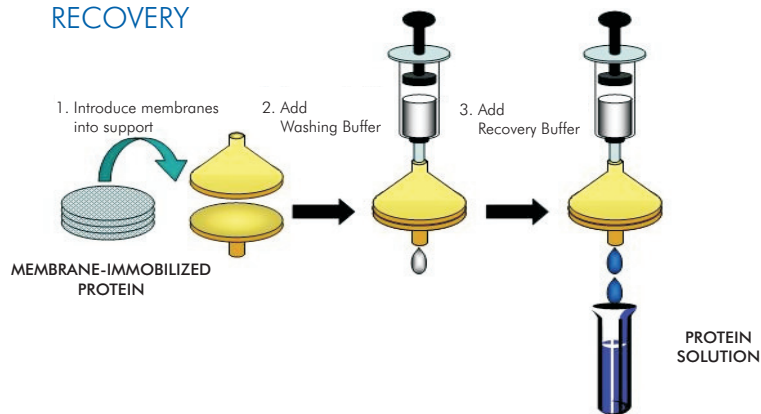
SIMPLE PURIFICATION, STORAGE AND DELIVERY OF RECOMBINANT PROTEINS

GENERAL PROCEDURES

STORAGE

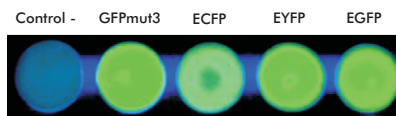


RECOVERY

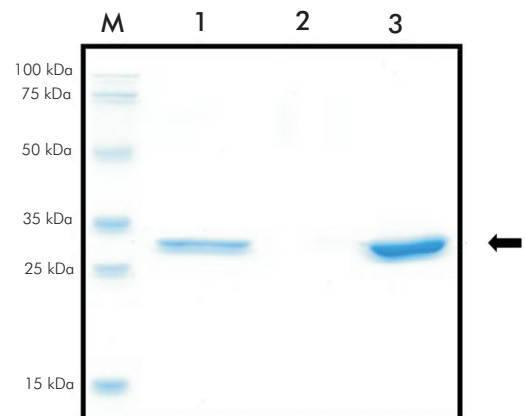
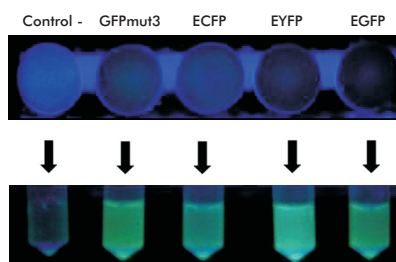


RESULTS

STORAGE



RECOVERY



SDS-PAGE of tagged protein immobilized and liberated using PROTE-STAMP. Tagged protein solution before passing through PROTE-STAMP (1) and after passing through PROTE-STAMP (2); tagged protein recovered from PROTE-STAMP (3).