OptiPrep™ Reference List RS13

Resolution of soluble cytosolic proteins from membrane vesicles and organelles

There are three Application Sheets listed in the Application Sheet Index under "**Protein localization (membrane *versus* cytosol)**" which describe different gradient strategies. These Application Sheets (described below) can be accessed via the following website www.OptiPrep.com (click on "**Methodology**", then "**Organelles and subcellular membranes**" and follow the links from the Index):

- **Discontinuous gradient: OptiPrep™ Application Sheet S35**
- **Self-generated gradient: OptiPrep™ Application Sheet S36**
- **A special strategy for rapid resolution of protein complexes and cytosol: OptiPrep™ Application Sheet S37**
- **Note that Reference Lists of papers addressing the resolution of mammalian cell exosomes and other microvesicles from soluble proteins are covered in OptiPrep™ Reference List RS10 and the similar resolution of bacterial and fungal microvesicles in RS11.**

The reference list, which follows, includes principally papers describing the separation of membranes and soluble (cytosolic) proteins (**Section 1**); it is divided alphabetically into source material (**cell or tissue type**). It includes both mammalian and non-mammalian sources and in each of the 26 sections, references are listed alphabetically according to first author. References in **Section 1a** describe the use of the gradients to isolate in addition, lipid droplets. **Section 2** lists a few papers that report the study of previously prepared subcellular membranes to determine the distribution of a particular protein between the soluble fraction and the organelle(s). Others describe the separation of vesicles either budded from the cells or obtained from permeabilized cells.

- Key words in titles are highlighted in light blue.

1. Cells or tissues

1.1. Algae

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1.5. CHO cells

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Cho, N-J., Cheong, K.H., Lee, C.H., Frank, C.W. et al (2007) *Binding dynamics of hepatitis C virus NS5A amphipathic peptide to cell and model membranes* J. Virol., **81**, 6682-6689

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1.26 *Xenopus*

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1a. Additional separation of lipid droplets

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