

# AQUEOUS TWO PHASE SYSTEMS (ATPS) FOR PURIFICATION OF PROTEINS FROM MILK WHEY



Process that decreases unit operations for the separation of proteins from whey.



## BACKGROUND

The dietary supplements and functional ingredients market has a growing demand. The main sources of protein supplements are animals (milk whey and egg) and plants (soy). Also it is expected that milk whey proteins market will increase due to consumer focus in health and wellness and high protein diets.

## TECHNOLOGY

An aqueous two phase system (ATPS) process which involves no energy (i.e. heat) for protein separation. It is a patented technology which has reduced number of operation units.

## KEY BENEFITS

- ATPS can be used as a platform for obtention of other high-value proteins.
- The obtained proteins have a better nutritional and flavor profile.
- It can handle high processing volumes.
- It is easily scalable.

## DEVELOPMENT STATUS

Technology Readiness Level: 3/9


## INTELLECTUAL PROPERTY


Patent Number: MX 29397

This technology is available for licensing. More opportunities on our website: <http://redottec.com>



Tecnológico  
de Monterrey

 Av. Eugenio Garza Sada No.427, Col. Altavista  
Monterrey, Nuevo León, México. C.P. 648449

 (81)8358-2000 Ext. 5626

 [ott.mty@itesm.mx](mailto:ott.mty@itesm.mx)

 OTT - Oficina de Transferencia de Tecnología  
del Tecnológico de Monterrey

 OTT ITESM MTY

 OTT Tecnológico de Monterrey