



## *Case Story - product development; the active ingredient and it's formulation*

Together with a major global company we have worked on the development of a new product in the personal health care segment. In this project we have proven that we are capable of managing and performing projects that run for more than a year. We have used our core expertise and several of the instruments available at Lund University.

### THE PROBLEM

Our aim was to find a new way to introduce an active agent. We were also well informed on the formulation strategy so we could add our comments and suggestions to this through out the project.

### OUR SOLUTION - the physical chemistry approach

We worked in close collaboration with the company and professors at Lund University for over a year. During this time we reached several mile stones and reported on these at our client's facilities. We had the perspective of a physical chemist. Our solution depended on the molecules' different characteristics in two environments; as a dispersion on the shelf and when used in a saline solution.

### TECHNIQUES USED ON BEHALF OF OUR CUSTOMER

Dynamic light scattering and cryo-TEM (transmission electron microscopy) were used to characterize particle size distributions and shapes. The proportions resulting in valuable cubic and hexagonal structures were found by small angle x-ray scattering (SAXS). The rheology measurements were needed to make sure the final product could be processed and used as specified.

### THIS WAS ONE EXAMPLE - YOURS COULD BE NEXT...

You are welcome to discover how our technology and competence can increase business for your company. For references - call us or check out our web page: [www.colloidalresource.se](http://www.colloidalresource.se)  
CEO Karin Bryskhe: +46 (0) 707-522 031, [karin@colloidalresource.se](mailto:karin@colloidalresource.se)