

1. Outline of Firm

Name of Firm	KUNIMINE INDUSTRIAL CO., LTD. (IWAKI OFFICE)		Representative	Yasuhiko Kunimine			
			Person in Charge	Munehiro Kubota			
Activities	Production and Sell of chemical additive made with clay mineral		URL	http://www.kunimine.co.jp			
Main Products	Refining Bentonite, Synthetic Smectite, Protein Crystallization Accelerator.						
Address	ZIP 972-8312 23-5 Kuidesaku, Jobanshimofunao-machi, Iwaki City Fukushima Japan						
TEL/FAX	+81-246-44-7100 / +81-246-44-7102		E-mail	m.kubota@kunimine.co.jp			
Capital(M Yen)	1,618	Founded	JUN. 1943	Sales (M Yen)	12,930	Employees	225

2. PR Item

『 Combined with clay opens a new future 』

The refined synthesis technology of bentonite is widely applied in various fields. Apart from its application in existing fields, such as cosmetics, bathroom necessities, pesticide liquid, paint, nanocomposites and ceramics, there are ongoing researches on its application in other new areas. Our company has made great efforts to study the chemical application technology, carried out a variety of the R&D of cosmetic recipes, and accumulated a lot of technical tricks on the preparation of clay. We provide high-quality products and support prescription technology, and can meet different needs.

● About Protein Crystallization Accelerator (Accel Core)

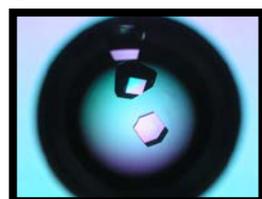
- This product is a completely new crystallization accelerator using synthetic clay.
- It can be used in the vapor diffusion method and is used as one of the protein crystallization conditions.
- It can be used in combination with numerous existing crystallization conditions, and it can be expected to shorten the crystallization time and also accelerate the crystallization just by adding it.
- Can be used it with commercially available crystallization kits.

Expected effect	
Improvement of crystallization	It accelerates crystal nucleation and shortens the crystallization time.
Improve success rate	By broadening the crystallization region, possible to crystallize under conditions that were impossible until now.
Reducing time and effort	Improve efficiency of condition screening.

What is protein crystallization?

Searching for crystallization conditions requires trial and error screening. Also, due to its low feasibility, it is common to require a lot of time and labor. This product is a protein crystallization accelerator developed for the purpose of reducing such labor or examination time. This product is effective for screening protein crystallization conditions, improving reproducibility of crystallization conditions, and accelerate crystallization rate.

● Accel Core Effective

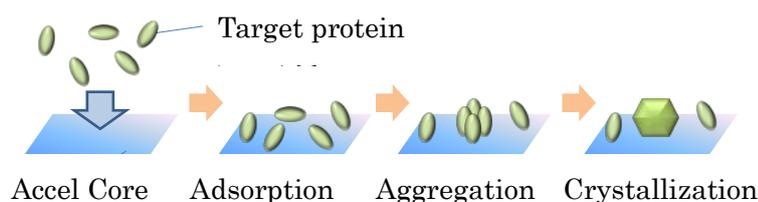


<When AC is not used>



<When AC is used>

Flow to crystallization



3. Remark & Reference

- We want to sell products to manufacturers of Pharmaceutical manufacturer and Raw material manufacturer.
- Our company is a professional manufacturer of bentonite (which is a clay mineral formed by volcanic ashes and lava accumulated at seabed or the bottom of lake), and we has been a leader of the industry.
- Main Clients: Lion Corporation, NIPPON ZETTOCO.LTD, Shiseido Company, Limited, Kanebo Cosmetics Global Corporate, Chanel, L'OREAL