

SINOWAY Newsletter

Oct, 2023

☆ Industry news and Sinoway Comments

1. Sinoway fruitful meetings during CPhI exhibition in Barcelona

Our Sinoway booth was 3G11 in Hall 3 of CPhI Worldwide(Barcelona) during Oct.24~26, which was in CDMO zone and attracted both old and new customers all over the world with below special services:

- 1) Continuous Flow chemistry
- 2) Enzymic catalytic reaction/Enzymatic resolution
- 3) High technology for purification and separation

We had fruitful meetings with customers to proceed with some new projects after signing secret agreements.

2. Sinoway NMN series products obtain Halal & Kosher certificates

In October, Sinoway has obtained Halal and Kosher certificates for one of its bestselling series products - **NMN** (β -Nicotinamide Mononucleotide), **NAD** (β -Nicotinamide Adenine Dinucleotide) , **NRCI** (Nicotinamide Riboside Chloride).

Sinoway has been exporting NMN and NAD early since 2018, with top quality (each batch purity 99%up by HPLC) and always competitive price.

Be free to check with us for more information about the Halal and Kosher certificates, especially if your NMN/NAD/NRCl products are intended for regions required Halal & Kosher certificates, especially middle east countries.

☆ New Technology Introduction

This month, we introduce Supercritical CO2 Crystallization Technology

What is Supercritical CO2 Crystallization Technology?

By dissolving the API in a suitable organic solvent to form a solution, and Supercritical CO2 is used as antisolvent to precipitate solid particles quickly, so as to form fine particles with good flowability.

Characteristics of Supercritical CO2 Crystallization

- FDA approved technology
- The process can be rapid scaled up
- Low residual solvent and good secondary processing behaviour
- Well **control of particle size** (200nm -10um)
- Very good flowability

Applications of Supercritical CO2 Crystallization

- 1. Single step process with low cost of manufacture, which can change crystallization form
- 2. Improve the performance of both small molecule and biological medicines(large molecule), e.g. solid form control, poorly soluble drugs, optimising inhaled delivery;
- 3. **Control particle size** by uniforming morphology;
- 4. Transform natural extracts which are difficult to crystallize very sticky extractum



(containing>20% water) into dry powder by Single step process

- 5. Functional excipients or API can also be introduced into the Supercritical CO2 Crystallization process, to produce formulated particles enabling product features such as **controlled release**, **coated particles for taste masking** and **combination therapy (combination products to make scalable co-crystals)**
- 6. Vaccine programme reformulating an injectable biotherapeutic for Dry Powder Inhalation (DPI)
- 7. Optimising for solubility, stability, bioavailability, targeted delivery
- 8. **Biopharmaceuticals:** attractive alternative to complex spray and freeze drying technologies (**Opportunities for sterile processing**)
- 9. Potentially able to **eliminate impurities** by exploiting different solubility.
- 10. Ability to **crystallise materials** that cannot be conventionally crystallised.

Sinoway is well-prepared for receiving CDMO projects using this particular Supercritical CO2 Crystallization technology, please be free to send inquiries if it can help with your on-going projects.