

Invitation: CO₂ Extraction Processing and Opportunities Workshop

Context

The NZ Natural Products sector is experiencing steady growth, with companies producing quality ingredients for use in food supplements, nutraceuticals and cosmeceuticals. Supercritical extraction (SCE) using carbon dioxide (CO₂) is often an attractive option as it enables cost-effective extraction of target fractions, uses mild operating temperatures to produce quality extracts, recovers the CO₂ to enable solvent recycling and produces extracts free of solvent residues with universal market acceptance. The Callaghan Innovation Process Engineering team have expertise and facilities to produce small volumes of food-grade extracts for initial market assessment. Commercial manufacture requires use of the existing toll manufacturing capability that is available in New Zealand or construction of new dedicated facilities. A Workshop to facilitate discussion on SCE CO₂ processing requirements and opportunities in New Zealand is therefore planned for September 2017.

Workshop Purpose

The Workshop will provide a forum to talk with companies who are involved, or interested to become involved, in SCE CO₂ processing. The workshop will be of interest to groups using, looking to use, or looking to invest in a processing plant. It will present information on technical and economic aspects of SCE CO₂ processing, provide time to talk with groups with complementary interests and enable discussion on capacity and logistical needs.

Agenda

Arrival

- Introduction to supercritical CO₂ extraction
- SCE CO₂ plant design options and co-solvents
- Pre- and post-processing requirements, ancillary equipment, and infrastructure
- NZFSA requirements for food products
- Drivers of processing costs and effects of scale.

Morning Tea

- Company Introductions [an invitation to Companies to provide an overview of their interests]

Lunch

- Tour of the Callaghan Innovation 10 and 200 L plants
- Observations from the day and discussion on where to from here?
- Wrap up [by 3:00pm]

Details

Location Alan McDiarmid Centre, Callaghan Innovation Quarter, 69 Gracefield Road, Lower Hutt

Date and Time Wednesday, 13 September 2017 9:00 AM – 3:00 PM

RSVP Please RSVP to Peter Dyer by Friday, 25 August 2017. peter.dyer@callaghaninnovation.govt.nz