



#3701

Supercritical Technology

EXTRACTION AND FRACTIONATION PROCESSES

DESCRIPTION

Experimental high-pressure concentration, fractionation and purification of natural extracts and chemical products.

AVAILABLE EQUIPMENT

- Bench-scale supercritical extraction unit (capacity 10 to 100 ml)
- Pilot scale extraction unit with liquefied gases (capacity 4 liters)
- High pressure extraction column for bench scale supercritical fractionation studies (250 bar, 150 ° C, 4 m)

ADVANTAGES

Production of solvent-free natural extracts and fractionation of chemical products by supercritical CO₂ technology. Green process intensification design through thermodynamic modeling, process simulation and experimental tests at bench scale.

APPLICATIONS

Essential oils | Citrus oils | Fatty oils | Acylglycerides | Esters of fatty acids | Oleoresins | Concentration of tocopherols and antioxidants.

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