

Salmon calcitonin

1. General Information

Type of application Pharma / Medical, Natural product, Biopolymer, Protein

Hormone, Biopharmaceutical
Type of application
Applied device
Recommended device
Hormone, Biopharmaceutical
Spray drying, Drug encapsulation
BUCHI Mini Spray Dryer B-190
BUCHI Mini Spray Dryer B-290

2. Sample preparation

Sample concentration 10 mg/ml, in deionized water, Mannitol: sCT in 7 steps from

100:0 to 0:100

Solvent Water Carrier , Filmogen D-Mannitol

3. Spray drying parameters

Inlet temperature 125°C
Outlet temperature 70°C
Pump rate 5 ml/min
Gas spray flow 60 psi
Drying gas flow
Nozzle diameter -

4. Results

Particle size Morphology Yield Encapsulation efficiency -

5. Additional Information

Remarks Examination of the stability and aggregation dependence on

Mannitol concentrations

Reference Physical Stability of Salmon Calcitonin Spray-Dried Powders for

Inhalation. J. Pharm. Sci., Vol. 93, No. 3, p. 792-804 (2004)

The given process parameters are used as starting values for process optimization and give an indication if the material can be spray dried or not.