

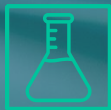
SEQENS

OUR SCIENCE FOR YOUR FUTURE

Protéus by Seqens



Created in **1998** and within **SEQENS** since 2017



20 Research scientists & experts



Development of tailored enzymes & Biocatalytic processes



Fermentation scale-up from Lab to **300L bioreactors**



An integrated global leader

in Pharmaceutical Solutions - Specialty Ingredients - Personal Care



+€1,4BN
Revenue



+3,400
Employees



24
Manufacturing Sites
(13 cGMP sites)



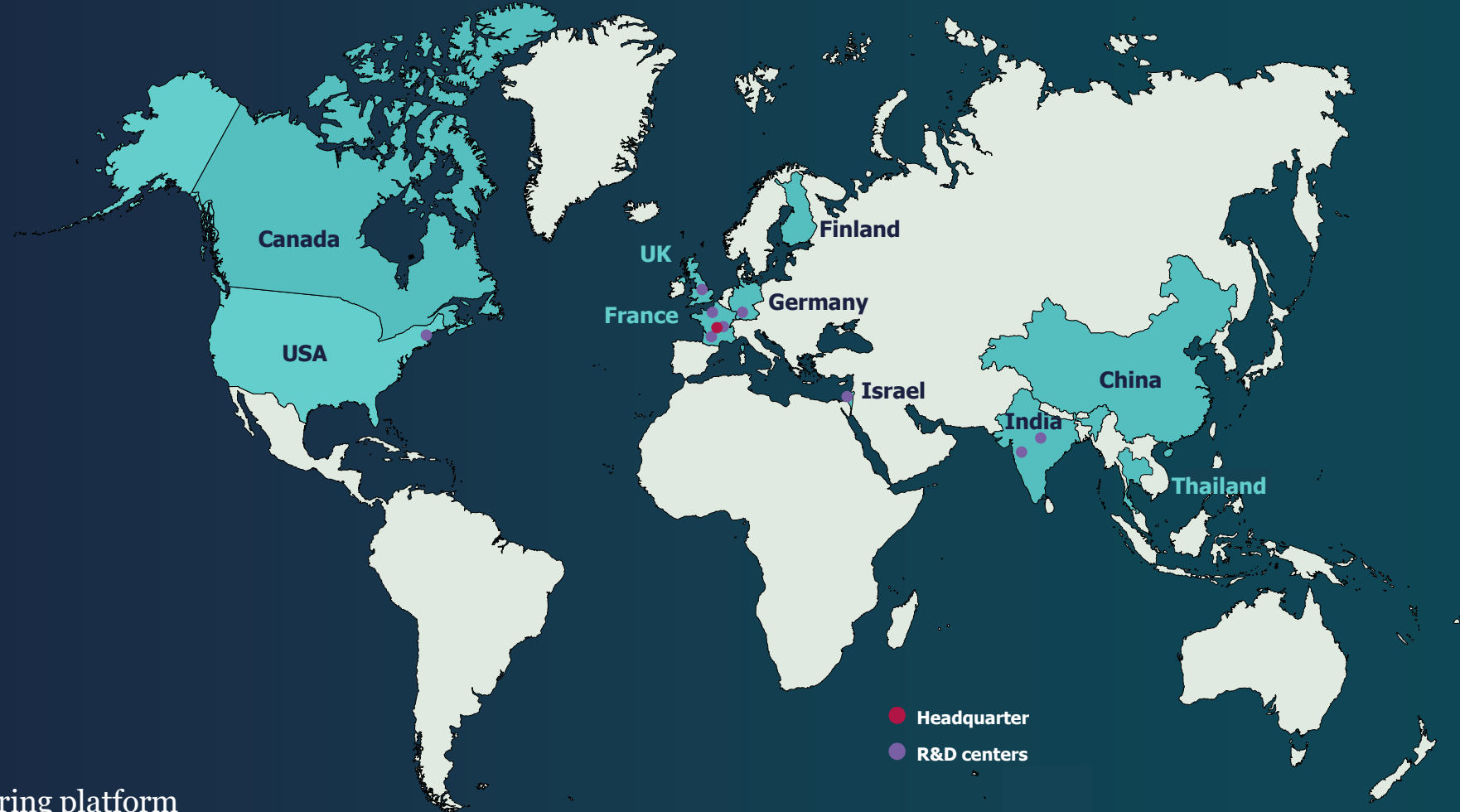
10
Countries



9 R&D
Centers



+300
Research
scientists & experts
(130 PhDs)



International manufacturing platform
with integrated end-to-end capabilities



Comprehensive global R&D platform with unique scientific skills

Complementary biotechnology solutions

Protéus

Equipment

1,200 sqm
1 kilo-lab
300 L fermentation
Robotic platform

Product categories

Pharma solutions
Cosmetics
Food & feed
Chemicals

Expertise

Enzyme screening
Biocatalyst devpt. & optimization
Biocatalysis scale-up
Biocatalysis services
Multi-tons manufacturing

Alganelle

Equipment

100 sqm
Lab-scale production
9 L Photobioreactors
DSP capabilities

Product categories

Pharma solutions
Cosmetics
Biomedicals
Biomaterials

Expertise

Synthetic biology
Metabolic engineering
Microorganism engineering
(microalgae, bacteria, yeast)
Recombinant production
(metabolites, bioactive peptides & proteins)

SEQENS'Lab

Equipment

5,000 sqm
3 kilo-lab suites
3 cGMP pilot plants
(incl. 1 flowchem pilot)

Product categories

Pharma solutions
Specialty ingredients

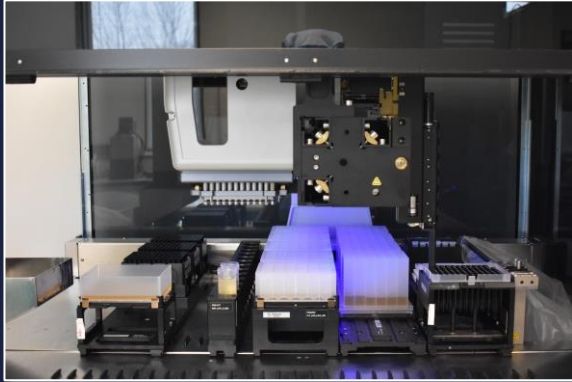
Expertise

Flow chemistry
Solid-state design
High potency API devpt.
Analytical excellence
Quality by design





Biocatalysis : from custom enzymes to industrial processes



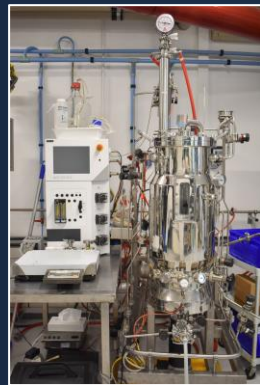
Automated Screening Platform

Between 2000 and 5000 per day depending on the screening method



Analytical Park :

- 4 Acquity Arc UHPLC devices - microplate samplers
- Detection: UV, RI, ELSD, MS
- Throughput: up to 1000-1400 analysis per day per equipment
- 3 Agilent FID devices - microplate samplers
- Throughput: up to 400-500 analysis per day per equipment



Enzyme Production Scale-up

Bioreactors : 2 x 3L - 2 x 40L – 1 x 300L

Strain selection / Media optimization / Fermentation process development / Tech-transfer, scale-up