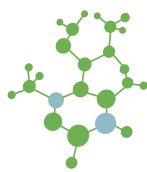




# Your partner for Smart & Innovative Solutions

## API, RSM, Intermediates, Excipients Development & manufacturing

- > Route scouting
- > Process development & Optimisation
- > Analytical development
- > QC, QA
- > Process & analytical methods validations & reports
- > GMP production and regulatory support
- > Product life cycle management
- > Grams to multi-tons



## Non commodity portfolio

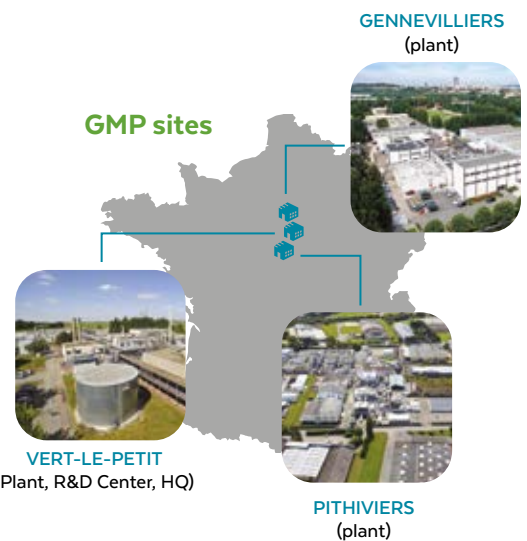
- > Generic API
- > Building blocks, RSM, Intermediates
- > Activated amino acids or NCAs
- > Functional Excipients for drug delivery and drug conjugate under Isodel<sup>TM</sup> brand:
  - Vitamin-E-TPGS
  - PolyAmino Acids



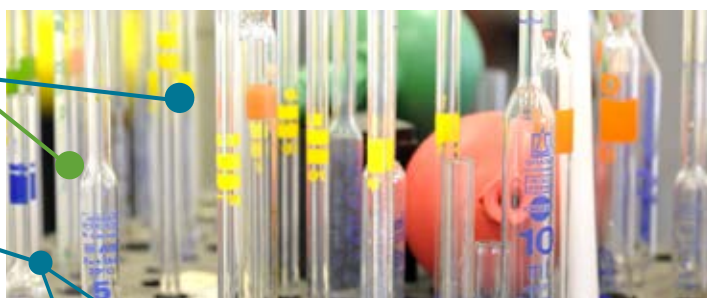
## Premium level expertise

- > Phosgene chemistry
- > Reduction : Hydrogenation (high pressure up to +40 bars), Hydrides
- > Bromination, Nitration
- > Cryogenic reaction (below -60 °C)
- > Purification by thin-film evaporator
- > Ring opening polymerization (ROP)

## GMP sites



**API**  
**INTERMEDIATES**  
**RSM**  
**BUILDING BLOCKS**  
**FUNCTIONAL EXCIPIENTS**  
**CDMO SERVICES**  
**CAPABILITIES: FROM LAB TO MT**



### Isodel™ Vit-E-TPGS and derivatives

NF & food grade since 2010  
Excipients & API  
US DMF and CDMF

# Portfolio

## Generic API (CEP, DMF)

- > Nefopam
- > Amiodarone
- > Domiphen bromide
- > Econazole
- > Fenticonazole

## RSM, Intermediates

- > D-Phenylalaninol
- > 1-Piperazinecarbonyl chloride, 4-Methyl, HCl
- > 5-Chlorovaleroyl chloride
- > 4-Amino-2-chloro-6,7-dimethoxyquinazoline

## N-CarboxyAnhydrides (NCAs), Urethane N-CarboxyAnhydrides (UNCAs)

- > Ala-NCA
- > Glu(OBzl)-NCA
- > Lys(TFA)-NCA
- > Tyr-NCA
- > Z-Val-NCA
- > Lys(Z)-NCA
- > Up to 60 activated aminoacids...

RSM for Glatiramer, Daclatasvir, Ledipasvir  
And Polyaminoacids (PAA)



## Isodel™ PAAs: custom manufacturing with integrated offer of NCAs

### HOMOPOLYMERS-PAA

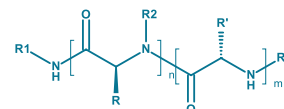
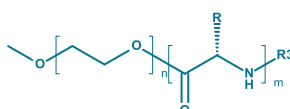
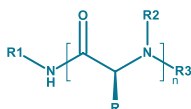
Poly-L-amino acids
Poly-sarcosine

### COPOLYMERS-PAA

Methoxy-poly(ethylene glycol)- <i>block</i> -poly(L-amino acids)
Poly(L-amino acids)- <i>block</i> -poly(L-amino acids)
Poly(sarcosine)- <i>block</i> -poly(L-amino acids)

### FUNCTIONALIZED PAA

Functionalized monoblock and diblock polyaminoacids
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**pmc isochem**™

Your partner  
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Innovative Solutions

### CONTACT

GENERAL REQUESTS

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