



Summary of Capabilities

Cork, Ireland

Facility Facts:

Workforce: ~400

Regulatory Approval: FDA, HPRA
Potency Capability: Up to Cat 3B

Contact Info: Currabinny

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Unique Offering:

Flexible small molecule API process development, scale-up and commercialization all within one integrated, FDA-inspected facility. Comprehensive capabilities to undertake a broad range of chemistries and supply API for all phases of development and commercialization. A center of excellence for the manufacture of highly potent APIs. Fully compliant with all applicable regulations and meets the most stringent production, quality, cGMP, safety and environmental standards.

Specialized Capabilities:

- New process technology transfer and evaluation
- Process optimization and development
- Solid state assessment
- Analytical method development and validation
- Process validation
- Pilot Plant (up to 2,500 L) to support clinical and small volume commercial API supply
- Manufacture API and registered intermediates under cGMP conditions from kilo scale to metric tonnes
- A range of flexible, multipurpose API production buildings with reactors up to 16,000 L
- Dedicated highly potent API facilities up to Cat 3b
- Range of milling capabilities including air classifier, pin and hammer mills
- Aqueous spray drying
- Comprehensively equipped analytical development and QC laboratories
- On-site stability chambers
- On-site waste treatment and wind turbine.

ltem			Development					Commercial Supply		
		Size/Details		Analytical Development	Pre-clinical/ Phase I	Phase II	Phase III	Commercial Scale-Up	Technology Transfer	Regulatory
Laborotories (12) and PAT Equipment	Tech Dev Lab/ R&D Lab	785 m², 36 Fume Hoods, 1 High Containment Hoods	•	•						
	Scale-up Lab	46 m², 3 Fume Hoods	•							
	Potent Compounds Lab	167 m², 11 Fume Hoods		•						
	Analytical Equipment	HPLC (UV, VWD, DAD, RI, CAD, MS), UPLC, GC-MS, NMR (400 MHz), ion chromatography, FTIR (ATR, KBr, film, gas), ICP, DSC, TGA, microscopy, turbidity meter, refractive index, LOD, ROI, conductivity, titration (acid/base, chloride, KF), color analysis, particle size, GPC (RI, UV,light scattering). Ii-Proces Control, Quality Control, Microbiology and Environmental testing. Method Development and Stability testing.		•	•	•	•	•	•	•
	Physical Properties Equipment	DSC, TGA, microscopy, turbidity meter, refractive index, conductivity, color analysis, particle size, GPC (RI, UV, light scattering).	•	•						
	PAT Plant Equipment	Lasentec FBRM (crystallisation), UV & IR (reaction monitoring), Mass Spec (drying endpoint), conductivity (separation).	•		•	•	•		•	

				Development					Commercial Supply			
ltem			Size/Details	Process Development	Analytical Development	Pre-clinical/ Phase I	Phase II	Phase III	Commercial Scale-Up	Technology Transfer	Regulatory	
API	Reactors	Glass Lined Reactors	2500L, 4000L, 4500L, 4800L, 5800L, 6300L (-30 to 200 °C)					•	•	•	•	
Commercial API Production		Hastelloy Reactors	4500L, 5450L, 6300L, -30 to 200 °C					•	•	•	•	
Sommercial Production		Hydrogenation	2200L (SS), 5450L (Hastelloy), -30 to 200 °C					•	•	•	•	
hod	Isolation Drying	GMP Isolators	Hastelloy Gloveboxes Charging & Discharging					•	•	•	•	
		Filter Dryers	(3 m², 4 m²) Hastelloy, (2 m², 3 m², 6 m²) SS					•	•	•	•	
B 1		OnLine Milling/Sieving	Hastelloy					•	•	•	•	
Commercial API Production	Ors	Glass Lined Reactors	4500L, 6300L, 8000L (-30 to 200 °C)					•	•	•	•	
on Sial	Isolation Reactors	Hastelloy Reactors	6300L, -30 to 200 °C					•	•	•	•	
nerc		Centrifuge	Stainless Steel					•	•	•	•	
rod		GMP Isolators	Hastelloy Gloveboxes Charging & Discharging					•	•	•	•	
Q.		Filter Dryers	(3 m²) Hastelloy					•	•	•	•	
B2		OnLine Milling/Sieving	Hastelloy					•	•	•	•	
API	ors	Glass Lined Reactors	1000L, 4500L, 16000L (-30 to 200 °C)				•	•	•	•	•	
Commercial API Production	Reactors	Hastelloy Reactors	4500L, 12000L -30 to 200 °C				•	•	•	•	•	
nerc	- R	Material Charging	Big Bag FIBC Powder Handling				•	•	•	•	•	
rod	o D	GMP Isolators	Hastelloy Gloveboxes Charging & Discharging				•	•	•	•	•	
Š.	Isolation Drying	Filter Dryers	(0.8 m ² , 1.5 m ² , 6 m ²) Hastelloy				•	•	•	•	•	
B3		OnLine Milling/Sieving	Hastelloy				•	•	•	•	•	
	Isolation Reactors Drying	Air Classifier Mill	Hosokawa Stainless Steel					•	•	•	•	
		Hammer Mill	Fitz Mill Stainless Steel					•	•	•	•	
Milling		Cone Mill	KEK Stainless Steel					•	•	•	•	
≅		Aqueous Spray Dryer	PSD3 Spraydryer					•	•	•	•	
84		Pin Mill	Stainless Steel			•	•	•	•	•	•	
		Bead Mills	Nylacast / Netzsch Stainless Steel			•	•	•	•	•	•	
		OnLine Sieving	Stainless Steel/Hastelloy			•	•	•	•	•	•	
	Reactors	Glass Lined Reactors	30L, 60L (-30 to 200 °C)			•	•	•	•	•	•	
+ P		Hastelloy Reactors	50L (-30 to 200 °C)			•	•	•	•	•	•	
B5 Potent Compound		Hydrogenation	50L (-30 to 200 °C)			•	•	•	•	•	•	
5 P	Isolation Drying	GMP Isolators	Hastelloy Gloveboxes Charging & Discharging			•	•	•	•	•	•	
m G		Filter Dryers	(0.035 m²) Hastelloy			•	•	•	•	•	•	
		GMP Isolators	Hastelloy Discharge Glovebox			•	•	•	•	•	•	
5	Reactors	Glass Lined Reactors	8000L (-30 to 200 °C)					•	•	•	•	
rcial API tion		Glass Lined Reactors	7000L (-30 to 200 °C)					•	•	•	•	
otic		Material Charging	Powder Transfer System Gloveboxes Charging					•	•	•	•	
Commer	Isolation Drying	GMP Isolators	Stainless Steel Gloveboxes Charging					•	•	•	•	
84		Filter Dryers	(3m²) Hastelloy					•	•	•	•	
B6		GMP Isolators	Hastelloy Discharge Glovebox					•	•	•	•	
尃	Reactors	Glass Lined Reactors	4000L (-30 to 200 °C)				•	•	•	•	•	
al A		Glass Lined Heaktanks	2500L (-30 to 200 °C)				•	•	•	•	•	
otici		Material Charging	Stainless Steel Gloveboxes Charging				•	•	•	•	•	
Commercial API Production	Isolation Drying	GMP Isolators	Hastelloy Gloveboxes Charging				•	•	•	•	•	
		Filter Dryers	(1.5 m²) Stainless Steel				•	•	•	•	•	
B7		OnLine Milling/Sieving	Stainless Steel				•	•	•	•	•	
0	SICS	Glass Lined Reactors	100L, 160L, 250L & 400L (-30 to 200 °C)			•	•	•	•	•	•	
B8 Potent Compound & Kilo Scale	Reactors	Hastelloy Reactors	160L (-30 to 200 °C)			•	•	•	•	•	•	
oter od 8	Be	Hydrogenation	160L (-30 to 200 °C)			•	•	•	•	•	•	
8 P. Sour	Isolation Drying	GMP Isolators	Hastelloy Gloveboxes Charging & Discharging			•	•	•	•	•	•	
Jim G		Filter Dryers	(0.22 m²) Hastelloy, (0.05 m²) Hastelloy			•	•	•	•	•	•	
ŏ		GMP Isolators	Hastelloy Discharge Glovebox			•	•	•	•	•	•	
	Reactors	Glass Lined Reactors	630L, 900L, 1600L, 2500L (-30 to 200 °C)			•	•	•	•	•	•	
iolic 1		Hastelloy Reactors	900L, 2500L, (-30 to 200 °C)			•	•	•	•	•	•	
nt T		Hydrogenation	1450L (-30 to 200 °C)			•	•	•	•	•	•	
Flexible Pilot Plant		GMP Isolators	Hastelloy Gloveboxes Charging & Discharging			•	•	•	•	•	•	
B9 FI	Isolation Drying	Filter Dryers	(1.1 m³) Hastelloy, (0.75 m³) Hastelloy, (0.125 m³) Hastelloy			•	•	•	•	•	•	
Ш	<u> </u>	GMP Isolators	Hastelloy Discharge Glovebox			•	•	•	•	•	•	

