









Accela ChemBio Co., Ltd.

Quality R&D and Fine Chemical Supplier

2019.5



Introduction



Since 2007, headquartered in Shanghai and San Diego

Focus on design, synthesis and manufacturing R&D chemicals

Integrated chemistry service: Catalog - CMO lab & pilot - Manufacture

Excellent R&D management team - Pharma experienced

ISO9001 certified by TÜV Rheinland, Germany

Quality and EHS - compliant

4.000+ Customers all over 40 countries



Certificate

ISO 9001 Certificate
(Qidong Accela ChemBio Co.,

Ltd.)

ISO 9001 Certificate (Shanghai Shaoyuan Co. Ltd.)

ISO 9001 Certificate (Accela ChemBio Co., Ltd.)



Certificate

ISO 9001:2015

Cordinate Players No. 21 106 102048

Destinate Players No. 21 106 102048

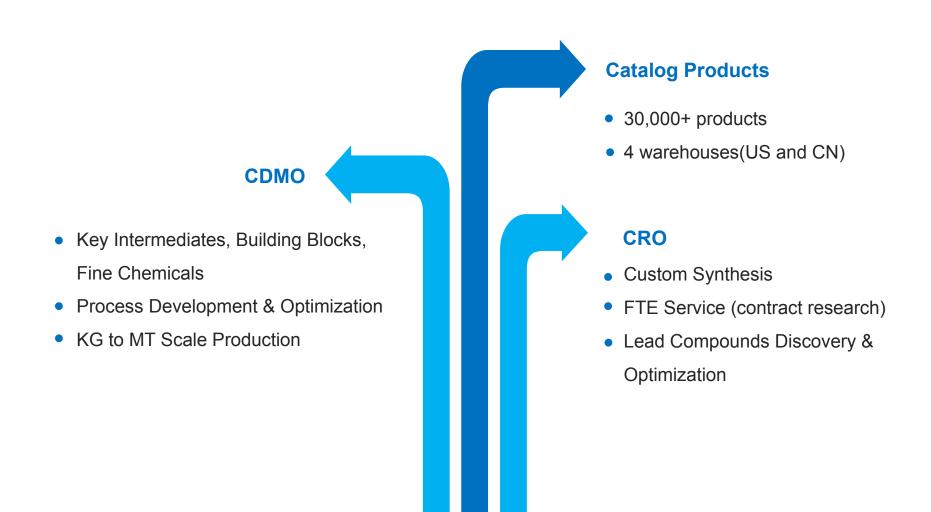
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Primary Business





Catalog Products





30,000 products

Specialize in Heterocyclic Building Blocks (acids, amines, boronates, chiral, fluorinated, halides and heterocycles)

Structure search on any PC/platforms

Every batch analyzed and QA-released

Dynamic stock, COA & Spectra online



CRO-R&D center



• 3 Research Centers



Shanghai R&D Center



Jinan R&D Center



Process Research Center



CDMO-Plant

Green facilities are located in Qidong Binjiang Fine Chemical Industry Park in Jiangsu Province, China, which are approved by provincial environmental protection bureau.

Since 2014

Refer to ICHQ7 and Chinese GMP Guidelines

ISO9001 certified by TÜV Rheinland

Phase I - Building area					
Building area					
3360m ²					
1360m ²					
1360m ²					
3280m ²					
700m ²					
480m ²					













CDMO-Capacity

Workshop	Facility	Specification	Texture	Quantity	Volume	Condition	Use	Capacity
1#	Reactor	100L∼2000L	Glass lining	17	18.8m³	-20∼140℃	Multi- functional workshop	30T/ year
		200L/1000L	Stainless steel	2	1.2m ³	-30∼300℃ -80∼140℃		
		200L/500L	Stainless steel	2	0.7m ³	-20∼140℃ 6.5Mpa		
	Centrifuge	PSB800/PSB1000	Stainless steel	2	_	_		
	Dryer	SZG-500/FZG-15	Stainless steel	4	_	0~100℃		
2#	The number of	is completed with are of reactors: 30 range: -80 \sim 200 $^\circ$ C						

Note: The running workshop1# can meet the needs of current CMO projects, and workshop 2# is being installed with equipments, which will provide a reliable guarantee for further development.









CDMO-Storage

Warehouse	Area
The total warehouse	3280m ²
Solid material&package storage	1235m²
Liquid material storage	700m²
Product storage (including freezer)	1235m²
Hardware storage	110m²









CDMO-Core Technology



Diazotization

Grignard reagents reaction

Enzymatic chiral synthesis

Nitration

Lithium reagents reaction

Fluorination

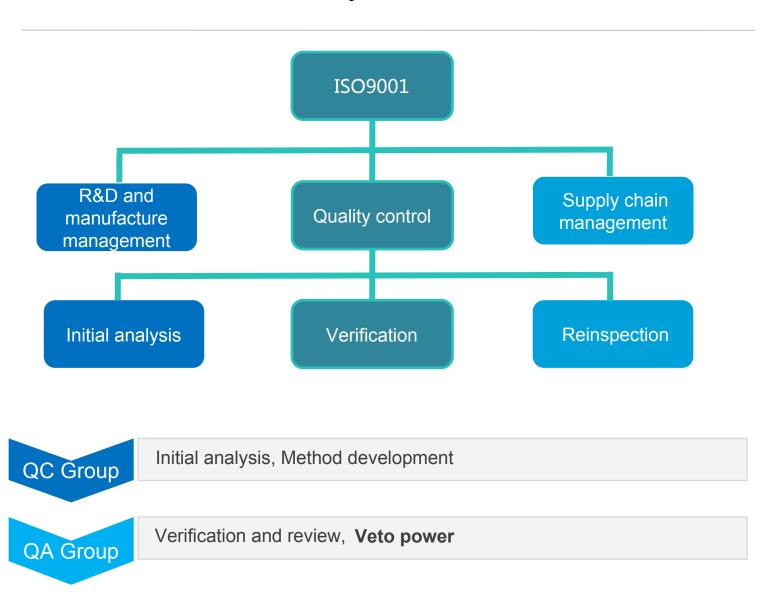
High Pressure chemistry

High temperature chemistry (300°C)

Low temperature chemistry (-80°C)



Quality Standard





CDMO-QCQA



Research Facility	Qty	Analytical Instrument	Qty	Analytical Instrument	Qty
Wet Chem Lab Bench- top Hoods	102	300 MHz Bruker NMR	1	DSC	1
Wet Chem Lab Walk- in Hood	10	Agilent GC-MS	1	UPLC	1
20-50L Glass Reactors / 10L Autoclave	4	Dionex LC-MS	1	Polarimeter	1
Corning Micro Reactors	1	Dionex/Shimadzu LC	6	Titrator	1
IMM Flow Reactors	3	Agilent GC	2	Others	8



CDMO-IP Protection&EHS

IP Protection

- Regularly training for employees
- Signing of Confidentiality Agreements (NDA)
- In-house safeguard of electronic security information
- Minimization of access to IP sensitive materials
- Distribution and recollection of IP sensitive documents, monitored by Project Manager.

EHS

- Compliant with all local environmental and safety regulations
- R&D center passed government agency audit in 2013
- Manufacturing site passed government agency audit in 2015





CDMO - Our Team



Technical management team

Leaded by two Sr. Scientists PhD with US working/study experience

Extensive expertise and excellent track record

Synthetic chemistry, Process R&D, CRO/CDMO



Project Management Team

Consists of RD, BD personnel

Internal project planning and execution, and report progress and results to customers.

Better communication with customer



Why Accela?



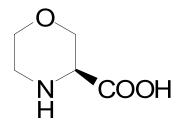
- Synthetic route design, evaluation & scouting
- Seamless transition from lab to pilot
- Process development and optimization to reduce cost and maximize output
- Safety Profiling



- "I like Accela business philosopher, your product quality is very good with very competitive price."
 - A Sr. Medicinal Chemist in Boston
- "We are very pleased with the material quality and timeline! (we're) planning to order more materials in the near future."
 - Matt J. from California, USA



Case study(I)



SY003807

Reported route:

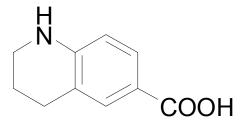
8 steps, overall yield 9%, ee%=95% Difficult workup & purification.

Accela route:

5 steps, overall yield 20%, ee%=99%
Easy purification, great reproducibility
Scalable to 10-50 kgs
Cost reduction by 12 times
PMI lowered by 4 times.
(PMI:Process Material Index)



Case study(II)



SY003732

Provided route:

3 steps, overall yield 17% Exothermic, large amt strong acid

Accela route:

4 steps, overall yield 40%
Non exothermic, No strong acid
Scalable to 10 - 100 kgs
Cost Reduction by 6 times
PMI 5 times lower.



Case study(III)

$$\begin{array}{c} O \\ O \\ O \end{array}$$

Original route: Chiral HPLC; mg scale only

Accela route:
Innovative chiral separation
6 steps, 98%ee
30 g to kg scale
Lower production cost



Case study(IV)



Protection

2015 Project:

16 sequential steps; delivered two 100-g batches and a 4-kg batch within 5 months; employed enzyme-catalyzed chiral synthesis, low temp Wittig rxn to generate cis-alkene; all oil materials purified by multiple flash column.

The target structure and more details could not be shared here for IP protection.



THANKS

Quality Products

Accountable Services

Dependable Business Relationship

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