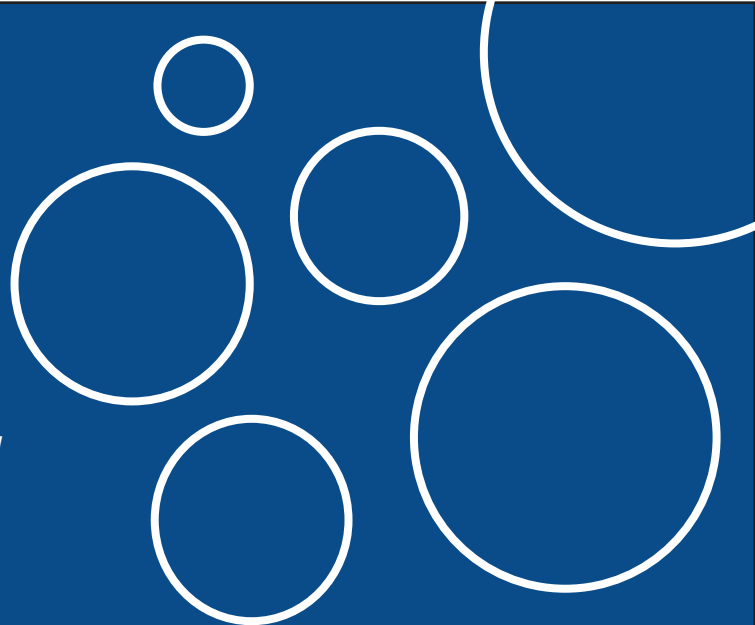


Excipients

As an experienced commercial manufacturer, we have developed time-tested processes and procedures to optimize production at each stage.



Product Type	Product Name	CAS#
Solubility Enhancement	SBE- β -CD	182410-00-0
	HP- β -CD	128446-35-5
	SNAc	203787-91-1
Cationic Lipid	DLin-MC3-DMA	1224606-06-07
	SM-102	2989251-47-6
	ALC-0315	2036272-55-4
	R-DOTMA C1	104872-42-6
PEG -Lipid	PEG2000-DMG	160743-62-4
	ALC-0159	1849616-42-7
Phospholipid	DOPE	4004-05-01
	DSPC	816-94-4



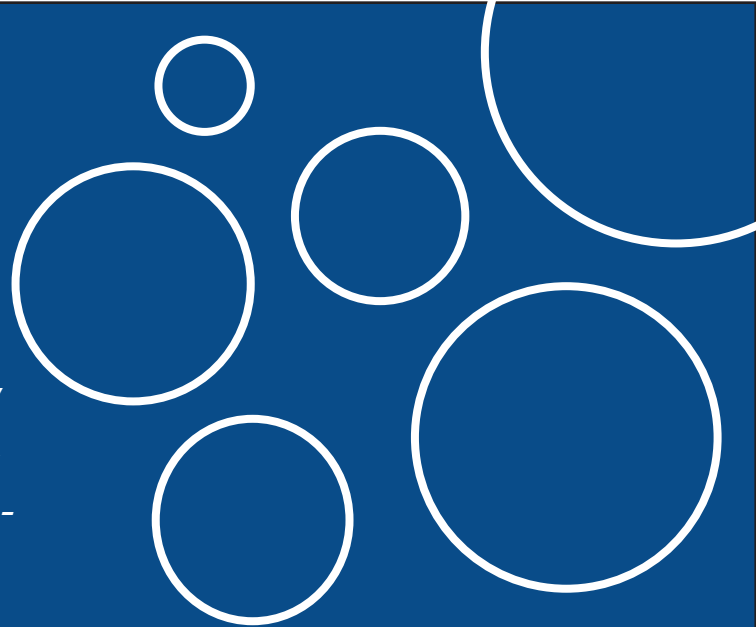
Generics

Asymchem has supplied both the branded and generic global carbapenem markets since 2011. In addition, we've supported carbapenem API's in late stage clinical development.

CC	Asymchem API	CAS#
115617	Ertapenem	153832-46-3
115616	Meropenem	119478-56-7
129124	Enol Phosphate (MAP)	90776-59-3
119708	Imipenem	74431-23-5
115585	Dexmedetomidine	145108-58-3
118709	SBECD	182410-00-0
118086	Sumatriptan Succinate	103628-48-4
115422	Sapropterin	69056-38-8
114803	Intermediate	76855-69-1
	4AA	

RNA/ Oligo Products (GalNAc)

Asymchem's oligonucleotide technology capabilities provide clients with full services in drug substance, from process development through GMP manufacturing.

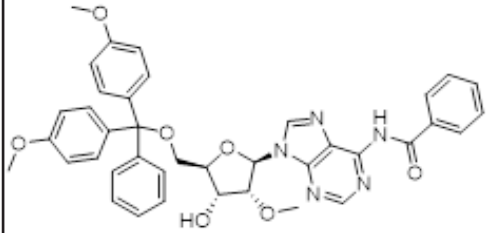
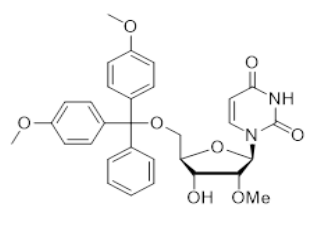
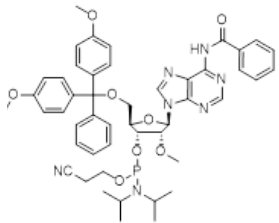
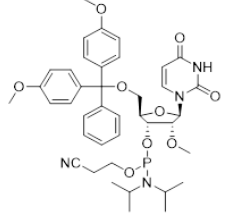
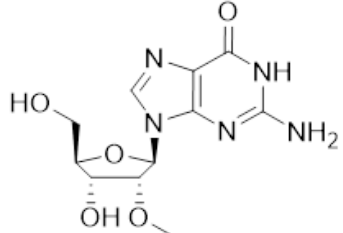
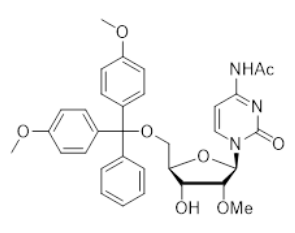
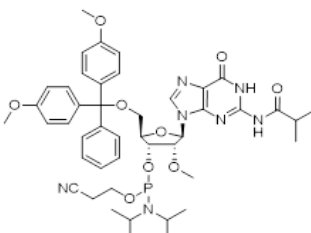
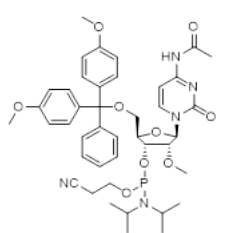


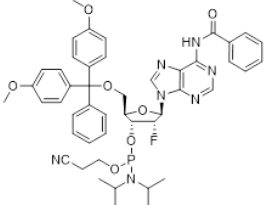
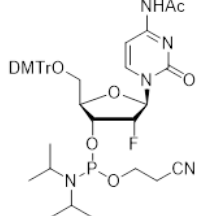
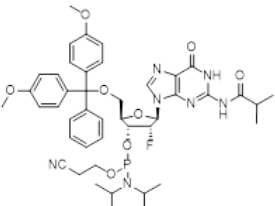
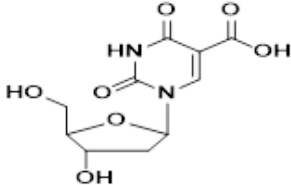
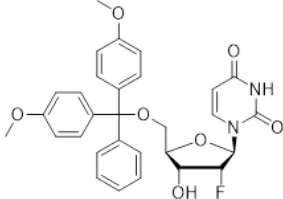
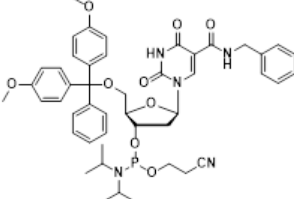
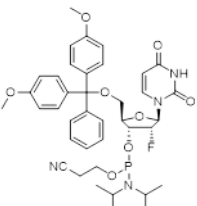
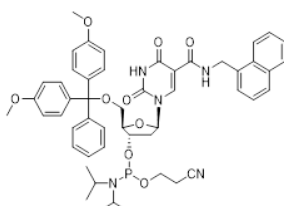
Product Name	CCL	CAS#
GalNAc-Tether	129488	1637413-95-6
GalNAc-Tether	126469	159173-77-0
GalNAc-Tether	N/A	1261568-35-7
GalNAc-Tether	132558	205535-93-9
Core (GalNAc)	129491	200133-16-0
Linker (GalNAc)	130994	N/A
Linker (GalNAc)	129496	1159408-71-5



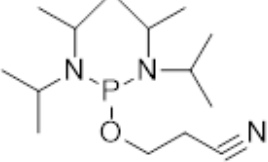
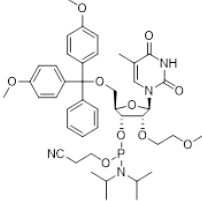
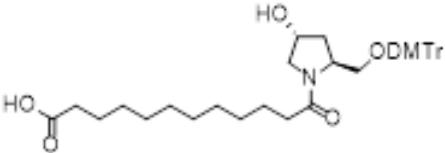
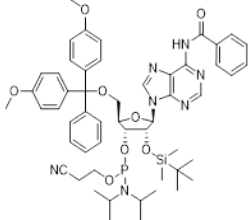
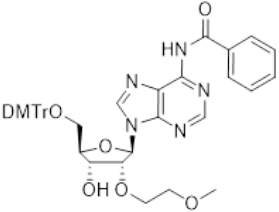
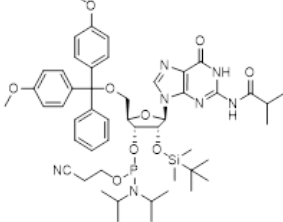
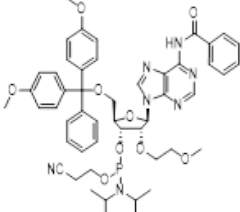
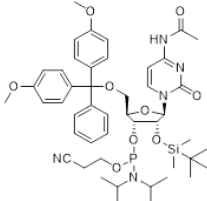
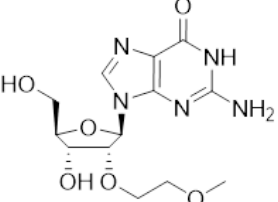
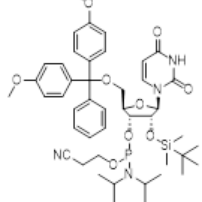
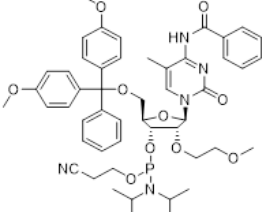
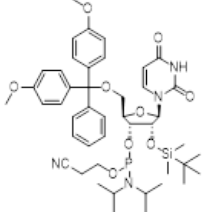
RNA/ Oligo Products (Amidites)

Our company's process chemistry, analytical, formulation, and regulatory teams collaborate to provide clients with a fast, efficient, and flexible integrated solution for manufacturing.

No.	Structure	CAS#	No.	Structure	CAS#
1		110764-72-2	5		103285-22-9
2		110782-31-5	6		110764-79-9
3		2140-71-8	7		199593-08-3
4		150780-67-9	8		199593-09-4

No.	Structure	CAS#	No.	Structure	CAS#
9		136834-22-5	13		159414-99-0
10		144089-97-4	14		944268-75-1
11		146954-74-7	15		DMT-DZ
12		146954-75-8	16		DMT-DP



No.	Structure	CAS#	No.	Structure	CAS#
17		102691-36-1	23		163759-94-2
18		1159408-70-4	24		163878-63-5
19		251647-48-0	25		104992-55-4
20		251647-53-7	26		147201-04-5
21		473278-54-5	27		121058-88-6
22		251647-55-9	28		118362-03-1

Specialty Products



Asymchem's GMP production from the hundred-gram to mt. scale helps our custom products process development and characterization to deliver unique solutions.

Glycans & Modified Glycans

Natural glycans modification:

- Chitosan
- Dextran
- Hyaluronic acid

Polymers

Functionalized polymers/oligomers for medical device and drug delivery:

- Free radical polymerization
- RAFT polymerization to control Mw.
- PDI
- Polymer-drug conjugates (OEB4 or OEB5)