



















**Jagiellonian University Medical College**  
**Timetable of lectures and classes for the first-year students of Drug Discovery and Development**  
**programme in the summer semester 2023/2024**

uesd	Monday 22.04.2024		Tuesday 23.04.2024		Wednesday 24.04.2024		Thursday 25.04.2024		Friday 26.04.2024		
	A	B	A	B	A	B	A	B	A	B	
8	:00 - 15		8	:00 - 15	8	:00 - 15	8	:00 - 15	8	:00 - 15	
	:15 - 30			:15 - 30		:15 - 30		:15 - 30		:15 - 30	
	:30 - 45	Foreign Language room 3		:30 - 45		:30 - 45		:30 - 45		:30 - 45	
	:45 - 60			:45 - 60		:45 - 60		:45 - 60		:45 - 60	
9	:00 - 15			9	:00 - 15	9	:00 - 15	9	:00 - 15	9	:00 - 15
	:15 - 30				:15 - 30		:15 - 30		:15 - 30		:15 - 30
	:30 - 45			:30 - 45		:30 - 45		:30 - 45		:30 - 45	
	:45 - 60			:45 - 60		:45 - 60		:45 - 60		:45 - 60	
10	:00 - 15	Principles of Medicinal Chemistry lecture room 109	10	:00 - 15	10	:00 - 15	10	:00 - 15	10	:00 - 15	
	:15 - 30			:15 - 30		:15 - 30		:15 - 30		:15 - 30	
	:30 - 45			:30 - 45		:30 - 45		:30 - 45		:30 - 45	
	:45 - 60			:45 - 60		:45 - 60		:45 - 60		:45 - 60	
11	:00 - 15		11	:00 - 15	11	:00 - 15	11	:00 - 15	11	:00 - 15	
	:15 - 30			:15 - 30		:15 - 30		:15 - 30		:15 - 30	
	:30 - 45			:30 - 45		:30 - 45		:30 - 45		:30 - 45	
	:45 - 60			:45 - 60		:45 - 60		:45 - 60		:45 - 60	
12	:00 - 15	Principles of Pharmaceutical Technology - lecture room 109	12	:00 - 15	12	:00 - 15	12	:00 - 15	12	:00 - 15	
	:15 - 30			:15 - 30		:15 - 30		:15 - 30		:15 - 30	
	:30 - 45			:30 - 45		:30 - 45		:30 - 45		:30 - 45	
	:45 - 60			:45 - 60		:45 - 60		:45 - 60		:45 - 60	
13	:00 - 15		13	:00 - 15	13	:00 - 15	13	:00 - 15	13	:00 - 15	
	:15 - 30			:15 - 30		:15 - 30		:15 - 30		:15 - 30	
	:30 - 45			:30 - 45		:30 - 45		:30 - 45		:30 - 45	
	:45 - 60			:45 - 60		:45 - 60		:45 - 60		:45 - 60	
14	:00 - 15	Principles of Pharmaceutical Technology - seminar room 109	14	:00 - 15	14	:00 - 15	14	:00 - 15	14	:00 - 15	
	:15 - 30			:15 - 30		:15 - 30		:15 - 30		:15 - 30	
	:30 - 45			:30 - 45		:30 - 45		:30 - 45		:30 - 45	
	:45 - 60			:45 - 60		:45 - 60		:45 - 60		:45 - 60	
15	:00 - 15		15	:00 - 15	15	:00 - 15	15	:00 - 15	15	:00 - 15	
	:15 - 30			:15 - 30		:15 - 30		:15 - 30		:15 - 30	
	:30 - 45			:30 - 45		:30 - 45		:30 - 45		:30 - 45	
	:45 - 60			:45 - 60		:45 - 60		:45 - 60		:45 - 60	
16	:00 - 15		16	:00 - 15	16	:00 - 15	16	:00 - 15	16	:00 - 15	
	:15 - 30			:15 - 30		:15 - 30		:15 - 30		:15 - 30	
	:30 - 45			:30 - 45		:30 - 45		:30 - 45		:30 - 45	
	:45 - 60			:45 - 60		:45 - 60		:45 - 60		:45 - 60	
17	:00 - 15		17	:00 - 15	17	:00 - 15	17	:00 - 15	17	:00 - 15	
	:15 - 30			:15 - 30		:15 - 30		:15 - 30		:15 - 30	
	:30 - 45			:30 - 45		:30 - 45		:30 - 45		:30 - 45	
	:45 - 60			:45 - 60		:45 - 60		:45 - 60		:45 - 60	
18	:00 - 15		18	:00 - 15	18	:00 - 15	18	:00 - 15	18	:00 - 15	
	:15 - 30			:15 - 30		:15 - 30		:15 - 30		:15 - 30	
	:30 - 45			:30 - 45		:30 - 45		:30 - 45		:30 - 45	
	:45 - 60			:45 - 60		:45 - 60		:45 - 60		:45 - 60	
19	:00 - 15		19	:00 - 15	19	:00 - 15	19	:00 - 15	19	:00 - 15	
	:00 - 15			:00 - 15		:00 - 15		:00 - 15		:00 - 15	
	:30 - 45			:30 - 45		:30 - 45		:30 - 45		:30 - 45	
	:45 - 60			:45 - 60		:45 - 60		:45 - 60		:45 - 60	
20	:00 - 15		20	:00 - 15	20	:00 - 15	20	:00 - 15	20	:00 - 15	
	:15 - 30			:15 - 30		:15 - 30		:15 - 30		:15 - 30	
	:30 - 45			:30 - 45		:30 - 45		:30 - 45		:30 - 45	
	:45 - 60			:45 - 60		:45 - 60		:45 - 60		:45 - 60	







**Jagiellonian University Medical College**  
**Timetable of lectures and classes for the first-year students of Drug Discovery and Development**  
**programme in the summer semester 2023/2024**

uesd	Monday 20.05.2024			Tuesday 21.05.2024			Wednesday 22.05.2024			Thursday 23.05.2024			Friday 24.05.2024				
	A	B		A	B		A	B		A	B						
8	:00 - 15		8	:00 - 15		8	:00 - 15		8	:00 - 15		8	:00 - 15		8	:00 - 15	
	:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30	
	:30 - 45	Foreign Language room 3		:30 - 45			:30 - 45	Principles of Medicinal Chemistry - seminar room 106		:30 - 45	Principles of Medicinal Chemistry - seminar 1/2D		:30 - 45	Biological drugs seminar 01/4			:30 - 45
	:45 - 60			:45 - 60		:45 - 60			:45 - 60			:45 - 60		:45 - 60		:45 - 60	
9	:00 - 15		9	:00 - 15		9	:00 - 15		9	:00 - 15		9	:00 - 15		9	:00 - 15	
	:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30	
	:30 - 45			:30 - 45	Diseases States and Pharmacotherapeutic Strategies - lecture e-learning		:30 - 45			:30 - 45			:30 - 45	Biological drugs classes 01/4		:30 - 45	
	:45 - 60		:45 - 60			:45 - 60		:45 - 60		:45 - 60		:45 - 60			:45 - 60		:45 - 60
10	:00 - 15		10	:00 - 15		10	:00 - 15		10	:00 - 15		10	:00 - 15		10	:00 - 15	
	:15 - 30	Principles of Medicinal Chemistry lecture room 109		:15 - 30			:15 - 30			:15 - 30	Molecular Screening Systems seminar room 1/2D		:15 - 30			:15 - 30	
	:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45				:30 - 45
	:45 - 60		:45 - 60				:45 - 60	Introduction to drugs safety and toxicology workshop room 01/4F		:45 - 60			:45 - 60			:45 - 60	
11	:00 - 15		11	:00 - 15		11	:00 - 15			11	:00 - 15		11	:00 - 15		11	:00 - 15
	:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30	
	:30 - 45	Molecular Screening Systems seminar room 109		:30 - 45	Molecular ADME and In Vivo Pharmacokinetics practical room prof Latacz room 1/1D		:30 - 45			:30 - 45			:30 - 45			:30 - 45	
	:45 - 60			:45 - 60			:45 - 60		:45 - 60		:45 - 60			:45 - 60			:45 - 60
12	:00 - 15		12	:00 - 15		12	:00 - 15		12	:00 - 15		12	:00 - 15		12	:00 - 15	
	:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30	
	:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45	Biological drugs classes 01/4		:30 - 45	
	:45 - 60		:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60		:45 - 60
13	:00 - 15		13	:00 - 15		13	:00 - 15		13	:00 - 15		13	:00 - 15		13	:00 - 15	
	:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30	
	:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45	
	:45 - 60		:45 - 60				:45 - 60			:45 - 60			:45 - 60			:45 - 60	
14	:00 - 15		14	:00 - 15		14	:00 - 15		14	:00 - 15		14	:00 - 15		14	:00 - 15	
	:15 - 30	Molecular Screening Systems gr 1 room 0115		:15 - 30			:15 - 30			:15 - 30	Molecular Screening Systems gr 2 room 0115		:15 - 30			:15 - 30	
	:30 - 45			:30 - 45			:30 - 45			:30 - 45				:30 - 45			:30 - 45
	:45 - 60		:45 - 60				:45 - 60	Principles of Pharmaceutical Technology - Practicals; 1/2E		:45 - 60			:45 - 60	TEST, room 1/1D		:45 - 60	
15	:00 - 15		15	:00 - 15		15	:00 - 15			15	:00 - 15		15		:00 - 15		15
	:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30	
	:30 - 45			:30 - 45			:30 - 45	Principles of Pharmaceutical Technology - Practicals; 1-105(G)		:30 - 45			:30 - 45			:30 - 45	
	:45 - 60		:45 - 60			:45 - 60			:45 - 60		:45 - 60		:45 - 60			:45 - 60	
16	:00 - 15		16	:00 - 15		16	:00 - 15		16	:00 - 15		16	:00 - 15		16	:00 - 15	
	:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30	
	:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45	
	:45 - 60		:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60		
17	:00 - 15		17	:00 - 15		17	:00 - 15		17	:00 - 15		17	:00 - 15		17	:00 - 15	
	:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30	
	:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45	
	:45 - 60		:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60		
18	:00 - 15		18	:00 - 15		18	:00 - 15		18	:00 - 15		18	:00 - 15		18	:00 - 15	
	:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30	
	:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45	
	:45 - 60		:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60		
19	:00 - 15		19	:00 - 15		19	:00 - 15		19	:00 - 15		19	:00 - 15		19	:00 - 15	
	:00 - 15			:00 - 15			:00 - 15			:00 - 15			:00 - 15			:00 - 15	
	:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45	
	:45 - 60		:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60		
20	:00 - 15		20	:00 - 15		20	:00 - 15		20	:00 - 15		20	:00 - 15		20	:00 - 15	
	:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30	
	:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45	
	:45 - 60		:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60		

**Jagiellonian University Medical College**  
**Timetable of lectures and classes for the first-year students of Drug Discovery and Development**  
**programme in the summer semester 2023/2024**

uesd	Monday 27.05.2024		Tuesday 28.05.2024		Wednesday 29.05.2024		Thursday 30.05.2024		Friday 31.05.2024						
	A	B	A	B	A	B	A	B	A	B					
8 :00 - 15			8 :00 - 15		8 :00 - 15		8 :00 - 15		8 :00 - 15		8 :00 - 15				
:15 - 30			:15 - 30		:15 - 30		:15 - 30		:15 - 30		:15 - 30				
:30 - 45	Foreign Language room 3		:30 - 45	Diseases States and Pharmacotherapeutic Strategies - Seminar room 106	:30 - 45	Principles of Medicinal Chemistry - seminar 1/2D	:30 - 45	Biological drugs seminar room 107	:30 - 45		:30 - 45				
:45 - 60			:45 - 60				:45 - 60				:45 - 60		:45 - 60		
9 :00 - 15			9 :00 - 15				9 :00 - 15				9 :00 - 15		9 :00 - 15		9 :00 - 15
:15 - 30			:15 - 30				:15 - 30				:15 - 30		:15 - 30		:15 - 30
:30 - 45		:30 - 45		:30 - 45		:30 - 45		:30 - 45		:30 - 45					
:45 - 60		:45 - 60		:45 - 60		:45 - 60		:45 - 60		:45 - 60					
10 :00 - 15	Principles of Medicinal Chemistry lecture room 109		10 :00 - 15	Diseases States and Pharmacotherapeutic Strategies - classes room 106	Diseases States and Pharmacotherapeutic Strategies - classes room 106		10 :00 - 15	Principles of Medicinal Chemistry - seminar 1/2D		10 :00 - 15		10 :00 - 15			
:15 - 30			:15 - 30				:15 - 30			:15 - 30		:15 - 30			
:30 - 45			:30 - 45				:30 - 45			:30 - 45		:30 - 45			
:45 - 60			:45 - 60				:45 - 60			:45 - 60		:45 - 60			
11 :00 - 15		11 :00 - 15		11 :00 - 15		11 :00 - 15		11 :00 - 15		11 :00 - 15					
:15 - 30		:15 - 30		:15 - 30		:15 - 30		:15 - 30		:15 - 30					
:30 - 45		:30 - 45		:30 - 45		:30 - 45		:30 - 45		:30 - 45					
:45 - 60		:45 - 60		:45 - 60		:45 - 60		:45 - 60		:45 - 60					
12 :00 - 15	Molecular Screening Systems gr 1 room 0115		12 :00 - 15	Biological drugs seminar 01/4			12 :00 - 15	Molecular Screening Systems gr 2 room 0115		12 :00 - 15		12 :00 - 15			
:15 - 30			:15 - 30		:15 - 30		:15 - 30			:15 - 30		:15 - 30			
:30 - 45			:30 - 45		:30 - 45		:30 - 45			:30 - 45		:30 - 45			
:45 - 60			:45 - 60		:45 - 60		:45 - 60			:45 - 60		:45 - 60			
13 :00 - 15		13 :00 - 15	Biological drugs classes 01/4				13 :00 - 15			13 :00 - 15		13 :00 - 15			
:15 - 30		:15 - 30					:15 - 30			:15 - 30		:15 - 30			
:30 - 45		:30 - 45					:30 - 45			:30 - 45		:30 - 45			
:45 - 60		:45 - 60					:45 - 60			:45 - 60		:45 - 60			
14 :00 - 15		14 :00 - 15					14 :00 - 15			14 :00 - 15		14 :00 - 15			
:15 - 30		:15 - 30					:15 - 30			:15 - 30		:15 - 30			
:30 - 45		:30 - 45					:30 - 45			:30 - 45		:30 - 45			
:45 - 60		:45 - 60					:45 - 60			:45 - 60		:45 - 60			
15 :00 - 15		15 :00 - 15					15 :00 - 15			15 :00 - 15		15 :00 - 15			
:15 - 30		:15 - 30					:15 - 30			:15 - 30		:15 - 30			
:30 - 45		:30 - 45					:30 - 45			:30 - 45		:30 - 45			
:45 - 60		:45 - 60					:45 - 60			:45 - 60		:45 - 60			
16 :00 - 15		16 :00 - 15					16 :00 - 15			16 :00 - 15		16 :00 - 15			
:15 - 30		:15 - 30					:15 - 30			:15 - 30		:15 - 30			
:30 - 45		:30 - 45					:30 - 45			:30 - 45		:30 - 45			
:45 - 60		:45 - 60					:45 - 60			:45 - 60		:45 - 60			
17 :00 - 15		17 :00 - 15					17 :00 - 15			17 :00 - 15		17 :00 - 15			
:15 - 30		:15 - 30					:15 - 30			:15 - 30		:15 - 30			
:30 - 45		:30 - 45					:30 - 45			:30 - 45		:30 - 45			
:45 - 60		:45 - 60					:45 - 60			:45 - 60		:45 - 60			
18 :00 - 15		18 :00 - 15					18 :00 - 15			18 :00 - 15		18 :00 - 15			
:15 - 30		:15 - 30					:15 - 30			:15 - 30		:15 - 30			
:30 - 45		:30 - 45					:30 - 45			:30 - 45		:30 - 45			
:45 - 60		:45 - 60					:45 - 60			:45 - 60		:45 - 60			
19 :00 - 15		19 :00 - 15					19 :00 - 15			19 :00 - 15		19 :00 - 15			
:00 - 15		:00 - 15					:00 - 15			:00 - 15		:00 - 15			
:30 - 45		:30 - 45					:30 - 45			:30 - 45		:30 - 45			
:45 - 60		:45 - 60					:45 - 60			:45 - 60		:45 - 60			
20 :00 - 15		20 :00 - 15					20 :00 - 15			20 :00 - 15		20 :00 - 15			
:15 - 30		:15 - 30					:15 - 30			:15 - 30		:15 - 30			
:30 - 45		:30 - 45					:30 - 45			:30 - 45		:30 - 45			
:45 - 60		:45 - 60					:45 - 60			:45 - 60		:45 - 60			







**Jagiellonian University Medical College**  
**Timetable of lectures and classes for the first-year students of Drug Discovery and Development**  
**programme in the summer semester 2023/2024**

uesd	Monday 17.06.2024			Tuesday 18.06.2024			Wednesday 19.06.2024			Thursday 20.06.2024			Friday 21.06.2024			
	A	B		A	B		A	B		A	B					
8	:00 - 15		8	:00 - 15		8	:00 - 15		8	:00 - 15		8	:00 - 15		8	:00 - 15
	:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30
	:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45
	:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60
9	:00 - 15		9	:00 - 15		9	:00 - 15		9	:00 - 15		9	:00 - 15		9	:00 - 15
	:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30
	:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45
	:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60
10	:00 - 15		10	:00 - 15		10	:00 - 15		10	:00 - 15		10	:00 - 15		10	:00 - 15
	:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30
	:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45
	:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60
11	:00 - 15		11	:00 - 15		11	:00 - 15		11	:00 - 15		11	:00 - 15		11	:00 - 15
	:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30
	:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45
	:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60
12	:00 - 15		12	:00 - 15		12	:00 - 15		12	:00 - 15		12	:00 - 15		12	:00 - 15
	:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30
	:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45
	:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60
13	:00 - 15		13	:00 - 15		13	:00 - 15		13	:00 - 15		13	:00 - 15		13	:00 - 15
	:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30
	:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45
	:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60
14	:00 - 15		14	:00 - 15		14	:00 - 15		14	:00 - 15		14	:00 - 15		14	:00 - 15
	:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30
	:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45
	:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60
15	:00 - 15		15	:00 - 15		15	:00 - 15		15	:00 - 15		15	:00 - 15		15	:00 - 15
	:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30
	:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45
	:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60
16	:00 - 15		16	:00 - 15		16	:00 - 15		16	:00 - 15		16	:00 - 15		16	:00 - 15
	:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30
	:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45
	:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60
17	:00 - 15		17	:00 - 15		17	:00 - 15		17	:00 - 15		17	:00 - 15		17	:00 - 15
	:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30
	:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45
	:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60
18	:00 - 15		18	:00 - 15		18	:00 - 15		18	:00 - 15		18	:00 - 15		18	:00 - 15
	:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30
	:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45
	:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60
19	:00 - 15		19	:00 - 15		19	:00 - 15		19	:00 - 15		19	:00 - 15		19	:00 - 15
	:00 - 15			:00 - 15			:00 - 15			:00 - 15			:00 - 15			:00 - 15
	:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45
	:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60
20	:00 - 15		20	:00 - 15		20	:00 - 15		20	:00 - 15		20	:00 - 15		20	:00 - 15
	:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30			:15 - 30
	:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45			:30 - 45
	:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60			:45 - 60

biological drugs  
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