



Address: Unit 607, 6th Floor, No. 527, Niavaran Center Commercial & Office Complex,
Shahid Dr. Bahonar St., Niavaran, Tehran, Iran.

Tel: +98 21 7919 8000

ABOUT CASPIAN

CASPIAN BIOTECH Company, since 2015, has been addressing the country's needs in the fields of biotech-driven medicine, technology of injectable drugs and laboratory products. With the aim of contributing to high-quality production and solving commercial issues as well as providing solutions for the production of vaccines, plasma, biosimilars, recombinant drugs, Mab, enzymes and probiotics, the company has been importing equipment, materials, and consumables from around the world-particularly from the USA, Germany, France, the UK, UAE, and China.

CASPIAN BIOTECH operates with a team of 30 experts and professionals across five different departments:

- 1 Engineering and Technical.
- 2 Sales and Marketing.
- 3 Biotech and Technology Transfer.
- 4 Injectable and Chemical.
- 5 Commercial and Logistics.

They offer specialized services in sales, repair, maintenance, SAT tests like (IQ & OQ & PQ) and logistic support. Additionally, with three active branches outside Iran (UAE, Turkey and USA), they operate all week long.

BIOTECH LINES

UPSTREAM

- FERMENTOR
- BIOREACTOR
- MEDIA
- FILTERS
- SPECTROSCOPY
- CENTRIFUGE
- SINGLE USE BAGS
- HOMOGENIZER

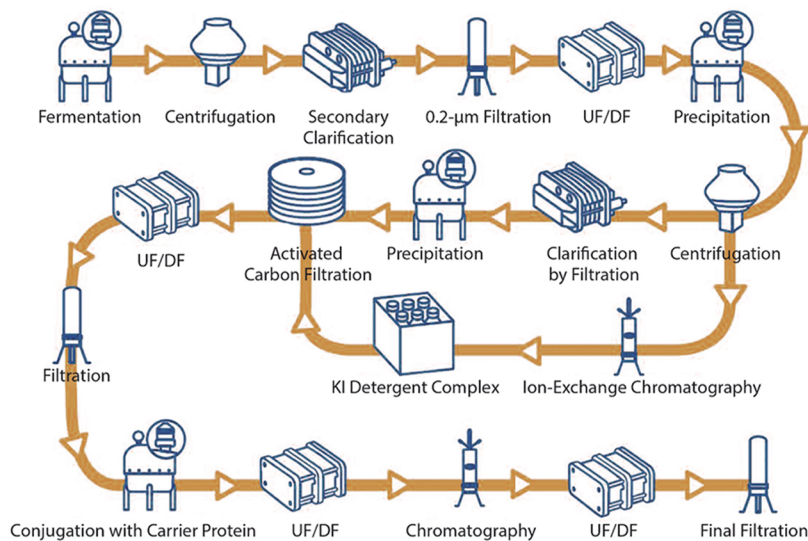
DOWNSTREAM

- FPLC
- HPLC PREPARATIVE
- RESINS
- COLUMNS
- TANGENTIAL FLOW FILTRATION
- FREEZ DRYER
- UF/DF MACHINE

PRODUCTION FLOW CHART

UPSTREAM TO DOWNSTREAM

- VACCINE
- ANTIBODY MONOCLONAL
- RECOMBINANT PROTEIN
- ENZYMES
- BIOSIMILARS
- PROBIOTICS
- ANTIBIOTICS
- MRNA TECHNOLOGY
- GENE AND CELL THERAPY
- PEPTIDE
- PLASMA DERIVED MEDICINE



FERMENTER & BIOREACTOR

SARTORIUS  cytiva

- GLASS
- STAINLESS STEEL
- WAVE
- SINGLE USE
- DUAL USE

Bioreactors and Fermentors are advanced processing systems designed for the controlled cultivation of microorganisms and cell cultures. They provide precise control over temperature, pH, dissolved oxygen, agitation, and sterilization, ensuring consistent performance for pharmaceutical, biotechnology, and industrial production processes.



BIOTECHNOLOGY INDUSTRY AND LABORATORY CELL MEDIA

PRODUCED IN THE US OR EU

OUR MEDIA ARE PRODUCED UNDER GMP CONDITIONS AS WELL AS EMA AND FDA REGULATIONS. THE MEDIA ARE AVAILABLE IN LIQUID OR IN POWDER FORMULATION.

SERUM-FREE, ANIMAL COMPONENT-FREE, HYDROLYSATE-FREE AND FULLY DEFINED.

FUNGI
CULTURE HEK293 BHK-21

BACTERIA
CULTURE VERO CHO DG44

CHO DG44 CHO K1



SARTORIUS



Lonza



gibco



HyClone®



HIMEDIA

CELL CULTURE OPM



OPM BIOSCIENCES

IS A LEADING PROVIDER OF CELL CULTURE MEDIA (CCM) AND CDMO (CONTRACT DEVELOPMENT AND MANUFACTURING ORGANIZATION) SERVICES. WE OFFER AN INTEGRATED SOLUTION TO MEET THE NEEDS OF BIOPHARMACEUTICAL COMPANIES WORLDWIDE. OPM WAS ESTABLISHED IN 2013 DEDICATED TO TOTAL CELL CULTURE SOLUTION DEVELOPMENT, WHICH HAS RESULTED IN OUR FAST GROWTH. WE ARE PROUD TO BE THE FIRST LISTED CCM COMPANY IN CHINA AND COMMITTED TO BEING A TOTAL SOLUTION PROVIDER IN BIOLOGICS DEVELOPMENT. OUR MANAGEMENT SYSTEM IS CERTIFIED TO ISO9001:2015 BY TÜV NORD. WE HAVE FOUR FULLY CGMP-COMPLIANT PLANTS, COVERING AN OVERALL AREA OF 18,000m². CURRENTLY, WE ARE CONSTRUCTING A NEW 30,000m² HEADQUARTERS TO MEET THE GROWING DEMAND FOR OUR PRODUCTS AND SERVICES. OPM IS BECOMING A STRATEGIC PARTNER OF BIOPHARMACEUTICAL COMPANIES WORLDWIDE, AND OUR DEDICATION TO QUALITY AND INNOVATION ENSURES THAT WE CONTINUE TO BE A TRUSTED PARTNER IN THE INDUSTRY.



FILTRATION



Micron Filtration
Ultrafiltration
Nanofiltration
Reverse Osmosis

Depth filtration
Membrane filters
Ultrafiltration
Reverse Osmosis systems
Tangential Flow Filtration

Polytetrafluoroethylene (PTFE)
Reverse Osmosis (RO)
Cellulose acetate (CA)
polyethersulfone (PES)
Glass Fiber Membrane (GF)
Cellulose nitrate (CN)
PVDF
Polyvinylidene chloride (PVC)

Sartobran® P
Sartopore®
Sartopure
Sartoclean



BIOTECHNOLOGY INDUSTRY
AND LABORATORY

SPECTROSCOPY AND MASS SPECTROSCOPY



Agilent Technologies



SHIMADZU

ThermoFisher
SCIENTIFIC



BRUKER



PerkinElmer
For the Better



BIOTECHNOLOGY INDUSTRY
AND LABORATORY

CENTRIFUGE



BIOTECHNOLOGY INDUSTRY
AND LABORATORY

SINGLE USE BAGS

SARTORIUS  cytiva

WE WILL **CUSTOMIZE** ALL SINGLE BAGS WITH YOUR CUSTOMED NEEDS, FROM SIZE COMPARISON , TO CUSTOMIZATION OF ALL INLET AND OUTLETS DEPENDING ON YOUR BIO NEEDS AND HOST CELL PROCESS PROCEDURES.



BIOTECHNOLOGY INDUSTRY AND LABORATORY HOMOGENIZER

PERFORMANCES

Max Flow Rate l/h

Pressure bar	Ariete Homogenizer 3006	Ariete Homogenizer 3006	Ariete Homogenizer 3011	Ariete Homogenizer 3015	Ariete Homogenizer 3030	Ariete Homogenizer 3037	Ariete Homogenizer 3045	Ariete Homogenizer 3055
100	650	1.000	3.000	4.500	7.500	12.000	12.000	14.000
180	450	750	1.800	2.500	5.000	6.700	8.000	10.000
200	450	750	1.600	2.200	4.200	6.000	7.300	9.000
250	400	600	1.300	1.800	3.300	5.000	5.800	7.200
400	200	350	800	1.100	1.700	3.000	3.600	4.500
600	100	220	550	750	1.100	2.000	/	2.800
1.000	80	120	/	400	650	1.200	/	/
1.200	80	120	/	370	500	1.000	/	/
1.500	35	50	/	250	330	800	/	/

Max Flow Rate l/h

Pressure bar	Ariete Homogenizer 3075	Ariete Homogenizer 3090	Ariete Homogenizer 3110	Ariete Homogenizer 3160	Ariete Homogenizer 5132	Ariete Homogenizer 5200	Ariete Homogenizer 5315	Ariete Homogenizer 5400
100	/	17.500	22.000	/	28.000	37.000	65.000	80.000
180	12.000	16.000	20.000	22.000	23.900	34.000	47.000	65.000
200	11.000	14.500	18.000	21.000	21.500	30.000	41.000	57.000
250	8.200	11.700	15.000	19.000	17.200	26.000	34.000	45.000
400	4.900	7.300	8.700	12.000	10.700	15.000	21.000	28.000
600	3.100	4.900	5.500	7.500	7.000	10.000	14.000	18.000
1.000	1.400	/	3.400	4.100	/	5.500	/	10.000
1.200	1.400	/	2.600	3.100	/	4.200	/	7.000
1.500	1.000	/	1.800	2.100	/	3.000	/	5.000



BIOTECHNOLOGY INDUSTRY
AND LABORATORY

CHROMATOGRAPHY



FPLC

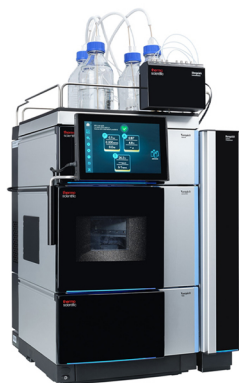


BIOTECHNOLOGY INDUSTRY
AND LABORATORY

CHROMATOGRAPHY

Waters™  Agilent Technologies

HPLC



BIOTECHNOLOGY INDUSTRY
AND LABORATORY

RESINS

1-SP SEPHAROSE
2-Q SEPHAROSE
3-CAPTO SP
4-CAPTO PHENYL
5-BUTYL SEPHAROSE
6-MAB SELECT SURE
7-CAPTO Q

8-CAPTO DEAE
9-PROTEIN A RESIN
10-CM SEPHAROSE
11- CM SEPHADEX
12-DEAE SEPHAROSE
13-CAPTO BUTYL
14-NI- SEPHAROSE

15-PROTEIN G RESIN



SARTORIUS



TANGENTIAL FLOW FILTRATION

SARTORIUS

TANGENTIAL FLOW FILTRATION (TFF) PROCESS SOLUTIONS

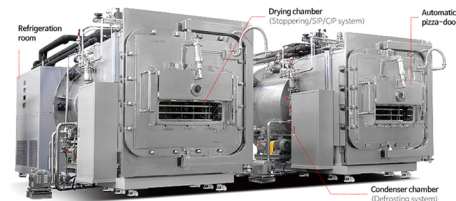
SPANNING PRODUCTION CAPACITY NEEDS WITH MAXIMUM EQUIPMENT UTILIZATION. MITIGATE THE RISK OF OPERATOR ERROR AND SIGNIFICANTLY REDUCE YOUR DEVELOPMENT TIME IN BOTH SINGLE-USE OR HYBRID PROCESSES. OUR SOLUTIONS PROVIDE HIGH-PERFORMANCE FROM PROCESS DEVELOPMENT TO COMMERCIAL MANUFACTURING IN VARIOUS UPSTREAM AND DOWNSTREAM BIOPROCESSING STEPS, INCLUDING CELL HARVEST, CLARIFICATION, PERFUSION, ULTRAFILTRATION, AND DIAFILTRATION.



FREEZE DRYER



Pilot freeze-dryers are instruments specialized for process optimization or small batch production in flasks (vials) or product trays. With their geometric similarity, comparable temperature control system, and identical operation, these systems are on a par with large production machines. This similarity makes scaling processes much easier



SPARE PARTS, VALVES & PUMPS



SPARE PARTS, VALVES & PUMPS

Spare parts, valves, and sanitary pumps are key components of pharmaceutical production lines, used for the safe and precise transfer of fluids and the maintenance of stable equipment performance. These components featuring sanitary designs, high-quality materials, and cleanability and sterilizability are selected and supplied in compliance with pharmaceutical industry requirements and GMP standards.

- PERISTALTIC PUMP
- PISTON PUMP
- CERAMIC PUMP
- GEAR PUMP
- DIAPHRAGM PUMP
- VACUUM PUMP



BIOTECHNOLOGY INDUSTRY AND LABORATORY

