

PLANOVA™ **BioEX**

*Your Virus Filtration Partner
You Can Absolutely Rely On*

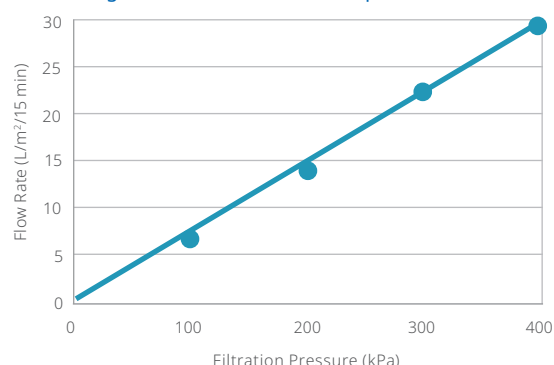


Filterability – For Challenging Solutions

Proven track-record with various commercial processes, especially high protein concentration.

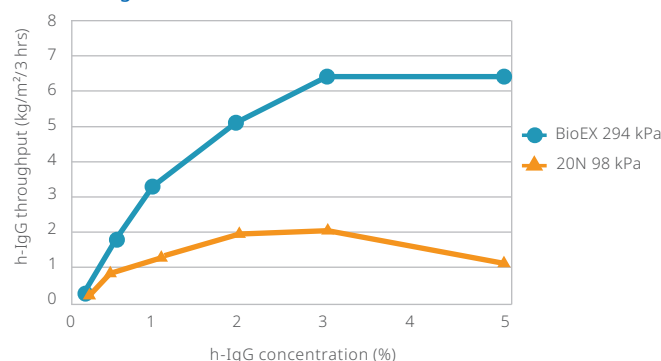
* h-IgG: human immunoglobulin G

Relationship between flow rate of 3% h-IgG solution and filtration pressure



Flow rate is dependent on pressure. Higher pressure yields faster processing.

Relationship between h-IgG throughput and h-IgG concentration

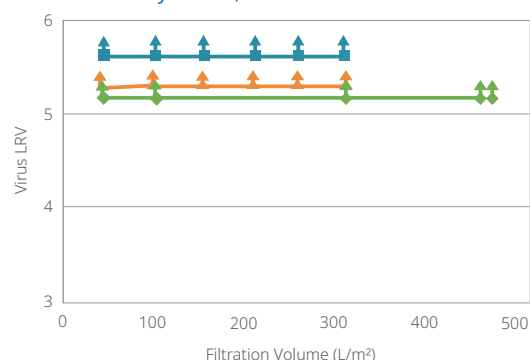


Planova BioEX filters can withstand high-concentration solutions, thereby increasing the quantity of protein to be processed.

Robust Virus Removal Capability

Planova™ BioEX's robustness allows for consistent virus removability with various molecules, under various conditions, such as different buffer conditions and different filtration pressures.

Removability of PPV, MVM and A-MuLV for Planova BioEX



3% h-IgG was spiked with 0.5% by volume of each virus solution.

Filtration Pressure: 294 kPa

Even for high-volume filtration of high-concentration solutions, Planova BioEX removes parvoviruses and larger viruses.

■ MVM ■ PPV
■ A-MuLV ▲ Not detected

* MVM: minute virus of mice
* PPV: porcine parvovirus

Materials & Operation Ranges

Materials & Operation Ranges		4.0 m ²	1.0 m ²	0.1 m ²	0.01 m ²	0.001 m ²	0.0003 m ²
Catalog numbers		EX4-0000	EX1-0000	EXZ-1000	EXZ-0100	EXZ-0010	EXZ-0003
Component	Hollow fiber membrane	Hydrophilic modified polyvinylidene fluoride					
	Housing and headers	Polycarbonate					
	Sealant	Polyurethane					
	Other components	Silicone Polycarbonate Polysulfone Polypropylene				Silicone Polypropylene	
Supplied As		Filled with purified water*					
Sterilization Method		Autoclaving					
Operating Pressure (TMP)		≤ 343 kPa					
Operating pH		2-9					

*Purified water in 4.0, 1.0 and 0.1 m² Planova BioEX filters contains <0.1% NaCl.



Visit us on the web at
planova.ak-bio.com

Planova is a registered trademark of Asahi Kasei Life Science Corporation
© 2025 Asahi Kasei Life Science Corporation All rights reserved.

TAE31250E-1.0