

# PLANOVA™ **BioEX**

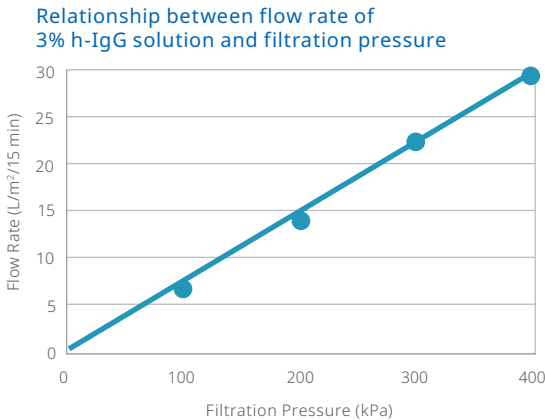
*Your Virus Filtration Partner  
You Can Absolutely Rely On*



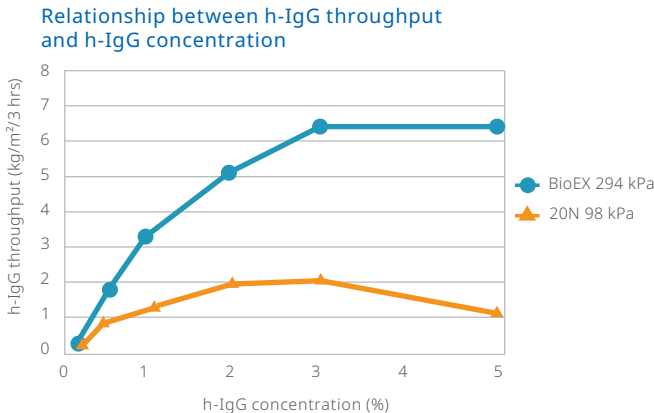
## Filterability – For Challenging Solutions

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

\* h-IgG: human immunoglobulin G



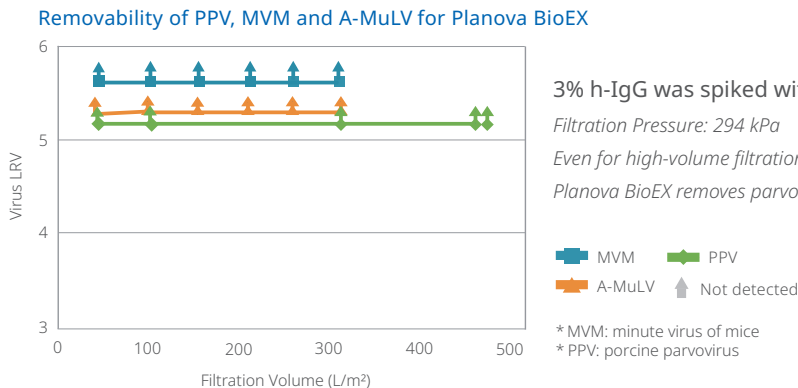
Flow rate is dependent on pressure. Higher pressure yields faster processing.



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.



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: minute virus of mice  
\* PPV: porcine parvovirus

## Materials & Operation Ranges

Materials & Operation Ranges		4.0 m²	1.0 m²	0.1 m²	0.01 m²	0.001 m²	0.0003 m²
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 m<sup>2</sup> Planova BioEX filters contains <0.1% NaCl.



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[planova.ak-bio.com](http://planova.ak-bio.com)

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