

Precast Gels for Isoelectric Focusing

SERVA offers a range of precast polyacrylamide gels for horizontal electrophoresis. The polyacrylamide layer is either bound to a sturdy support GEL-FIX™, an inert polyester film, activated to bind irreversibly to polyacrylamide, or to NetFix™, an inert polyester fabric, activated to bind polyacrylamide but open to both sides of the gel. NetFix™ is particularly useful when blotting is applied after electrophoresis as it stabilizes the gel but leaves both gel surfaces open, suitable for transfer.

The surface of each precast gel is protected with a thin cover sheet (GEL-FIX™ for covers) against damage and drying out. SERVA precast gels are separately packed, each individually sealed in an Aluthen bag which adds to longevity.

SERVA precast gels are offered with thin and ultrathin gel layers. For most applications, the 0.3 mm gel thickness is recommended, gels of 0.15 mm thickness are advised when high resolution is required and low amount of sample material is available.

Samples are loaded by use of an applicator strip (made from silicon). Various strips differing in number and shape of slots are available from SERVA. The applicator strip can be positioned at any location on the gel - samples can be loaded at optimum of solubility, anodically to mid-position to cathodically. Usually, an IEF run is completed within 3 hours (depending on pH gradient and electrode distance).

Staining is performed in the same way as one is used to from handling other gels, precast or self-cast. There is no need to change the staining procedure or protocol. Gels can be air-dried over night at room temperature.

SERVALYT™ PRECOTES™: Complete List

PAG Layer	Size	Cat.No.	Quantity
SERVALYT™ PRECOTES™ Wide Range pH 3 - 10			
150 µm	125 x 125 mm	5 pieces	42965.03
150 µm	245 x 125 mm	5 pieces	42967.02
300 µm	125 x 125 mm	5 pieces	42866.02
300 µm	245 x 125 mm	5 pieces	42867.02
SERVALYT™ PRECOTES™ Wide Range pH 3 - 6			
150 µm	125 x 125 mm	5 pieces	42974.02
150 µm	245 x 125 mm	5 pieces	42919.03
300 µm	125 x 125 mm	5 pieces	42874.02
SERVALYT™ PRECOTES™ Wide Range pH 4 - 6			
300 µm	125 x 125 mm	5 pieces	42875.02
SERVALYT™ PRECOTES™ Wide Range pH 6 - 9			
150 µm	125 x 125 mm	5 pieces	42878.02
300 µm	125 x 25 mm	5 pieces	42878.02

Properties of SERVA Precast Gels for IEF

	SERVALYT™ PRECOTES™	SERVALYT™ PreNets™	Blank PRECOTES™	Blank PreNets™
Polymer concentration	5 % (T)	5 % (T)	5 % (T)	5 % (T)
Crosslinker (N,N'-methylene-bisacrylamide)	3 % (C)	3 % (C)	3 % (C)	3 % (C)
SERVALYT™ concentration	5 %	5 %	-	-
Support film thickness (GEL-FIX™ for PAGE)	180 µm	-	180 µm	-
Cover film thickness (GEL-FIX™ for Covers)	75 µm	75 µm	75 µm	75 µm
Polyacrylamide gel layer	0.15 mm, 0.3 mm	0.3 mm	0.3 mm	0.3 mm
Recommended storage	4 °C	4 °C	4 °C	4 °C
Shelf life time	18 months	18 months	18 months	18 months
Gel formats				
Large standard size	245 x 125 mm	-	245 x 125 mm	-
Standard size	125 x 125 mm	125 x 125 mm	125 x 125 mm	125 x 125 mm
Delivery/packaging				
Large size (245 x 125 mm)	5 gels/package	5 gels/package	5 gels/package	5 gels/package
Standard size (125 x 125 mm)	5 gels/package	5 gels/package	5 gels/package	5 gels/package