

Biochemicals

Electrophoresis

Bioseparation

Life Sciences

Specials

Blank PRECOTES™ & Blank PreNets™

Precast Gels for Isoelectric Focusing

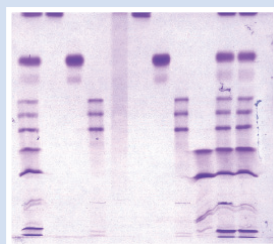
The Concept of “Blank” Gels

Blank gels provide a superb solution to obtain gels of any pH range to perform Isoelectric Focusing (IEF) by use of flat-bed electrophoresis. Blank PRECOTES™ are thin (0.3 mm) polyacrylamide gels (5 % T) cast onto GEL-FIX™ support film; Blank PreNets™ are prepared with built-in Net-Fix™ and are the right choice when blotting is to be performed. Usually, an IEF run is completed within 3 hours (depending on gel size). Resolution is at least as good, sometimes found even superior, compared to the results obtained with gels of “cast-in” ampholytes.

Blank gels contain only BisTris buffer, pH 6.5. They are given the prefix “blank” to indicate that they are (almost) “empty” gels with a matrix that can be adapted to any pH gradient the user needs. SERVA Blank PRECOTES™ and Blank PreNets™ are equilibrated in the ampholyte mixture of choice for 30 minutes prior to electrophoresis.

Choice of pH Gradient

Narrow (1 - 2 pH units), medium (2 - 4 pH units) and wide range pH gradients (pH 2 - 11) can be set up through a variety of SERVALYT™ carrier ampholytes which can be blended to result in virtually any gradient. Even gels of basic pH range (8 - 11) are prepared easily and reproducibly.

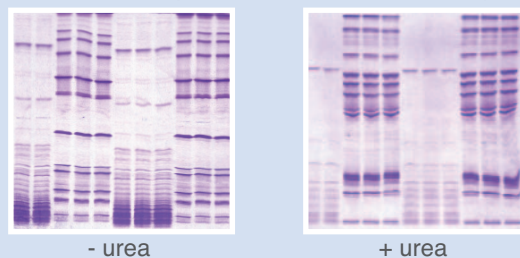


Blank PRECOTE™ equilibrated with SERVALYT™ pH 8 - 11 (blend of SERVALYT™ pH 3 - 10 (20%), 7 - 9 (50%) and 9 - 11 (30%))

IEF in the Presence of Urea and Other Detergents

Another striking benefit of the “blank” gel concept is the option to add urea to the equilibration mixture. Gels containing as much as 8M urea are prepared quickly and freshly for each experiment, every time. Other detergents (e.g., Chaps, Tween, Triton) can also be added; this is particularly useful if poorly soluble protein samples (e.g., membrane proteins) are to be analyzed.

Blank PRECOTE™ equilibrated with SERVALYT™ pH 3 - 10



Sample Loading, Staining, Storage

Sample loading is via applicator strip or applicator pieces. Staining is performed in the same way as one is used to from handling other gels, precast or self-cast. Gels can be air-dried over night at room temperature.

Blank PreNets™ – Blotting Gels

PreNets™ gels are prepared with Net-Fix™ cast into the polyacrylamide matrix adding mechanical stability to the thin gel layer. Net-Fix™ is an inert polyester net activated to bind polyacrylamide. After electrophoresis, the gel is easily lifted from its film support (non-binding) and transferred to the membrane of choice, no tearing or damage will occur when handling the thin layer due to the stabilizing effect of the built-in Net-Fix™. Both methods, semi-dry transfer and tank transfer, are applicable. Transfer using a semi-dry blotter is usually completed within 30 minutes. Handling of PreNets™ is identical in all steps to operating PRECOTES™, including staining and drying.

TECHNICAL NOTES

Electrophoresis

- Versatile gel for IEF within any pH range
- Suited for IEF in the presence of urea
- Excellent resolution
- Long shelf life
- Also available as blotting gels

Ordering Information

Gels are available in various formats, the mini format 45 x 50 mm is suitable for the Phast System (trademark of Amersham Biosciences). Detailed instructions are included in each box. Shelf life is at least 12 months. SERVAYLT™ to be used to equilibrate the gels are offered at preferred prices when ordering gels. Please ask.

Product	Cat. No.	Gel Size	Quantity
Blank PRECOTES™	42759.01	125 x 125 mm	5
	42710.01	245 x 125 mm	5
	42711.01	45 x 50 mm	10
Blank PreNets™	42758.01	125 x 125 mm	5
	42718.01	245 x 125 mm	5

Accessories required for electrophoresis

Product	Cat. No.
Applicator strips 7 x 1, 24 slots, 260 mm long, 3 pcs.	42989.01
Applicator strips 3,5 x 2, 15 slots, 100 mm long, 6 pcs.	42915.01
Applicator strip 3,5 x 2, 43 slots, 240 mm long, 3 pcs.	42899.01
Applicator strip 2 x 3,5, 19 slots, 100 mm long, 6 pcs.	42914.01
Sample Application Pieces, 10 x 5 mm, 200 pcs	42880.01
Electrode wicks, long, 240 x 6 x 1 mm, 100 pcs.	42987.03
Electrode wicks, standard, 120 x 6 x 1 mm, 100 pcs.	42988.01
Anode fluid 3, 50 ml	42984.03
Cathode fluid 10, 50 ml	42986.03

Marker proteins for pI-Determination

Product	Cat. No.
IEF Marker 3 - 10, SERVA Liquid Mix, 500 µl, ready-to-use	39212.01
Protein Test Mixture for pI-Determination pH 3 - 10, 10 mg, lyophilized	39211.01

Blank PRECOTES™ & Blank PreNets™

Precast Gels for Isoelectric Focusing

SERVAYLT™ Carrier Ampholytes

SERVAYLT™ carrier ampholytes are recommended for the equilibration of blank gels. For gel format 125 x 125 mm, 10 ml of SERVAYLT™ are sufficient, for gel format 245 x 125 mm order 25 ml with each box.

Product	Cat. No.	Quantity
SERVAYLT™ 2 - 4	42902.01	10 ml
	42902.02	25 ml
SERVAYLT™ 2 - 11	42900.01	10 ml
	42900.02	25 ml
SERVAYLT™ 3 - 4	42922.01	10 ml
	42922.02	25 ml
SERVAYLT™ 3 - 5	42903.01	10 ml
	42903.02	25 ml
SERVAYLT™ 3 - 6	42944.01	10 ml
	42944.02	25 ml
SERVAYLT™ 3 - 7	42945.01	10 ml
	42945.02	25 ml
SERVAYLT™ 3 - 10	42940.01	10 ml
	42940.02	25 ml
SERVAYLT™ 2 - 9 Seed-Mix	42935.01	10 ml
	42935.02	25 ml
	42935.03	100 ml
SERVAYLT™ 3 - 10 Iso-Dalt for 2DGE	42951.01	10 ml
	42951.02	25 ml
SERVAYLT™ 4 - 5	42923.01	10 ml
	42923.02	25 ml
SERVAYLT™ 4 - 6	42904.01	10 ml
	42904.02	25 ml
SERVAYLT™ 4 - 7	42948.01	10 ml
	42948.02	25 ml
SERVAYLT™ 5 - 6	42924.01	10 ml
	42924.02	25 ml
SERVAYLT™ 5 - 7	42905.01	10 ml
	42905.02	25 ml
SERVAYLT™ 5 - 7 PGM	42936.01	10 ml
	42936.02	25 ml
SERVAYLT™ 4 - 9T Technical Grade	42910.01	10 ml
	42910.02	25 ml
	42910.03	100 ml
SERVAYLT™ 5 - 8	42949.01	10 ml
	42949.02	25 ml
SERVAYLT™ 5 - 9	42950.01	10 ml
	42950.02	25 ml
SERVAYLT™ 6 - 7	42925.01	10 ml
	42925.02	25 ml
SERVAYLT™ 6 - 8	42906.01	10 ml
	42906.02	25 ml
SERVAYLT™ 6 - 9	42913.01	10 ml
	42913.02	25 ml
SERVAYLT™ 7 - 9	42907.01	10 ml
	42907.02	25 ml
SERVAYLT™ 9 - 11	42909.01	10 ml
	42909.02	25 ml

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