

# Purexa™ PrA 24 Well Plate

## Membrane Chromatography Product

### User Manual



#### INTRODUCTION

Purexa™ PrA 24 Well Plate is Purilogs' Protein A high throughput membrane chromatography plate intended for antibody purification. Each well of the 24 well plates has a loading volume of 10mL. Purexa PrA 24 Well Plates are compatible with most major positive pressure manifold systems. We recommend an operating pressure of 1-2 bars to achieve optimum flowrates. It is *NOT* intended for use in clinical or diagnostic procedures and is intended for research purposes only.

#### SPECIFICATION

Pore Size	0.45µm
Typical hlgG binding per well	1-1.5 mg per well in 1xPBS, pH 7.4; capacity may vary when different types of antibodies and buffers are used
Recommended Operating Pressure (pressure manifolds)	1-2 bars
Loading Buffer Example	1XPBS, pH=7.4
Washing Buffer Example	20mM Sodium Acetate or Sodium Citrate pH 5.5; or Deionized water
Elution Buffer Example	20-100 mM Citric Acid, Sodium Acetate, Phosphoric Acid, or Glycine pH=3.0
Cleaning Buffer Example	1 mL of 0.1 M NaOH followed by 5 mL 20 mM Tris pH=7.0, then DI as needed

#### MATERIALS SUPPLIED

The Purexa PrA 24 Well Plate is supplied with one receiving plate. More receiving plates can be ordered at Purilogs.

#### TYPICAL BIND-AND-ELUTE PROCESS

**Equilibration:** Fill reservoir with 5 mL 1XPBS, pH=7.4 and process solution through to a receiving plate using a positive pressure manifold (operating ranges above).

**Loading:** Load reservoir with antibody solution and process.

**Washing:** Load reservoir with 5 mL washing buffer, for a rinse step and process.

**Elution:** Add around 1mL of elution buffer ensuring that the entire membrane surface is wetted prior to processing.

NOTE: Additional washing steps may be needed to achieve optimum purity

#### CLEANING AND STORAGE

To clean the plate, we recommend loading reservoir with 1 mL 0.1 M NaOH followed by 5 mL 20 mM Tris, pH=7.0 then DI as needed. Then we recommend filling the well with 20% ethanol solution and sealing to ensure the membrane remains wet. Store in the fridge until needed. All membrane plates should be kept between 2-8°C and protected from sunlight.

**CAUTION:** *If the membrane is dried out, it may affect plate's reusability.*