

Purexa™ OdT 24 Well Plate; 0.5µm Pore Size Membrane Chromatography Product User Manual



INTRODUCTION

Purexa™ OdT 24 Well Plate are Purilogsics®' 24-well Oligo deoxy-Thymidine (OdT) highthroughput membrane plate product for mRNA purification. Each well of the 24 well plates has a loading volume of 10mL. Purexa OdT 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	0.5µm
Typical mRNA binding per well	100µg mRNA per well
Recommended Operating Pressure (pressure manifolds)	1-2 bars
Loading Buffer Example	50 mM Sodium Phosphate + 250 mM NaCl, pH 7.0
Washing Buffer Example	50 mM Sodium Phosphate pH 7.0
Elution Buffer Example	Deionized water
Cleaning Buffer Example	0.1 M NaOH. A CIP cycle prior to first use is recommended.

MATERIALS SUPPLIED

The Purexa OdT 24 Well Plate is supplied with the affinity plate and a receiving plate. More receiving plates can be ordered at Purilogsics.

TYPICAL PROCESS CYCLE

Equilibration: Fill reservoir with loading buffer and process solution through to a collection plate using a positive pressure manifold (operating ranges above).

Loading: Load reservoir with IVT mixture and process.

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

Elution: Add around 1 mL 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.