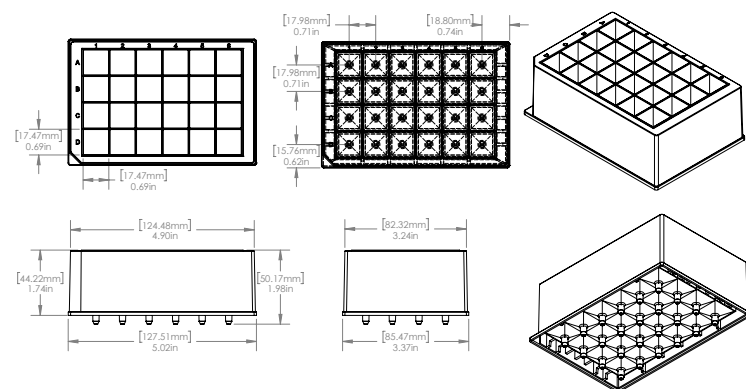


Universal Rapid Clear® 24-Well Filter Plate

Product Description	Part #	Sterility
Universal Rapid Clear® 7mL, 24-Well Filter Plate	921547	non-sterile

Universal Rapid Clear®



Introduction

The Thomson Universal Rapid Clear® 7mL, 24-Well Filter Plate (URC) enables rapid clarification of cell culture supernatants and lysates in a standard centrifuge. Designed for protein production workflows, the URC plate processes up to 24 samples simultaneously in as little as 5 minutes at $336 \times g$, replacing up to 24 manual syringe filtrations while reducing hands-on time, contamination risk, and workflow variability. The URC plate is ideal for removing cell debris from CHO, HEK293, insect, and microbial cultures prior to downstream purification and analytical workflows.

Specifications

Well Count	24
Well Vol.	up to 7mL
Well Shape	Square Well / Long Drip
ANSI-SLAS	Yes
Collection Plate	931565-G-1X, 931568, 931569-G-1X, 931571
Filter Technology	Universal Rapid Clear® Depth Filtration
Plate Material	Polypropylene
Clarification Conditions	$336 \times g$ (RCF), 5 minutes
Sterility (SAL)	non-sterile

FAQ's

What types of samples can be processed with the Universal Rapid Clear® 24-Well Filter Plate?

The URC 24-Well Filter Plate is designed for clarification of both cell culture supernatants and cell lysates prior to purification or analysis. Typical applications include CHO, HEK293, insect cell, and microbial protein production workflows where removal of cells and debris is required prior to purification or analysis.

How many samples can be processed at one time?

The URC 24-Well Filter Plate can process up to 24 samples simultaneously, allowing users to replace up to 24 individual syringe filtration steps with a single centrifugation run. Each well supports a working volume of up to 7mL, allowing efficient clarification of larger-volume protein expression samples.

What centrifugation conditions are recommended?

For most applications, samples can be clarified by centrifuging the plate at $336 \times g$ (RCF) for 5 minutes. Actual processing conditions may vary depending on sample type, cell density, and debris load.

The URC plate is designed for use with standard laboratory centrifuges capable of accommodating ANSI/SLAS-format plates, making it easy to integrate into existing protein production and sample preparation workflows. A collection plate is required to be below the 24-Well Universal Rapid Clear Filter Plate to collect the filtrate. Ensure that the centrifuge can accommodate the stacked plates before operation. If unsure, please contact FAS@htslabs.com for assistance.

Can the URC 24-Well Filter Plate be used before protein purification workflows?

Yes. The URC plate is commonly used to remove cells and particulates prior to downstream purification methods, including purification tip workflows. Clarifying samples before purification can help reduce clogging and improve overall workflow efficiency.

What advantages does the URC 24-Well Filter Plate provide compared to syringe filtration?

The URC plate enables simultaneous processing of up to 24 samples in a single centrifugation step. Compared to individual syringe filtration, it can significantly reduce hands-on time, improve consistency between samples, lower consumable usage, and decrease contamination risk associated with repeated manual handling.

Is the URC 24-Well Filter Plate compatible with laboratory automation?

Yes. The plate utilizes a standard ANSI/SLAS footprint, making it compatible with automated liquid handling and sample processing systems that accommodate SBS-format labware.