

# Slide-A-Lyzer G3 Dialysis Cassettes



**Green benefits**

- Less waste and fewer resources: contains 23–68% less plastic than prior product design

## Product description

The Slide-A-Lyzer G3 Cassette provides a convenient, easy to use, and secure alternative to traditional dialysis tubing. This third generation of Slide-A-Lyzer cassette features a more compact shape, significantly less plastic waste, and a new, secure cap design that allows for easy pipette loading and retrieval. It is available in five volume capacities and in 2K, 3.5K, 10K, and 20K molecular weight cut-offs (MWCOs).

## Green feature

### Less waste and fewer resources

Slide-A-Lyzer G3 Dialysis Cassettes use 23–68% less plastic source material for the cassette surrounding the low-

binding regenerated cellulose membrane, as compared with prior G1 and G2 generation designs (Table 1). Using less plastic requires less petroleum feedstock, reducing greenhouse gas emissions.

In addition to requiring fewer resources, the redesigned Slide-A-Lyzer G3 Dialysis Cassettes also create less waste. The cassettes' smaller footprint (Figure 2) can help reduce the volume of plastic waste generated in the lab, supporting sustainability efforts like waste minimization programs.

Designing the Slide-A-Lyzer G3 Dialysis Cassettes to generate less waste and use fewer resources is a win for our customers, our company, and the planet.

## Introduction

Thermo Fisher Scientific is committed to designing our products with the environment in mind—it's part of how we enable our customers to make the world healthier, cleaner and safer. This fact sheet provides the rationale behind the environmental claim that Thermo Scientific™ Slide-A-Lyzer™ G3 Dialysis Cassettes contain 23–68% less plastic compared with previous product designs, thereby requiring fewer resources to produce and generating less waste.



Figure 1. Slide-A-Lyzer G3 Dialysis Cassettes.



Figure 2. Slide-A-Lyzer G3 Dialysis Cassettes are more compact than prior product designs. A 30 mL Slide-A-Lyzer G2 Dialysis Cassette (left) and a 30 mL Slide-A-Lyzer G3 Dialysis Cassette (right) are shown.

Table 1. Comparison of product mass for the Slide-A-Lyzer G3 Dialysis Cassettes versus prior product designs.

Volume capacity	3 mL		15 mL		30 mL		70 mL	
	Mass (g)	Percent additional material	Mass (g)	Percent additional material	Mass (g)	Percent additional material	Mass (g)	Percent additional material
Slide-A-Lyzer Dialysis Cassette generation								
New G3	16.38	-	30.58	-	37.59	-	53.52	-
G2	37.72	57%	72.93	58%	91.13	59%	165.03	68%
G1	21.7	25%	39.66	23%	76.65	51%	NA	-

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