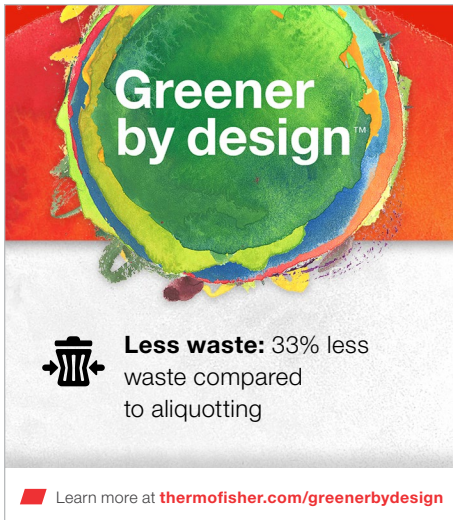


## One Shot FBS 50 mL bottles



### Introduction

We are committed to designing our products with the environment in mind. This fact sheet provides the rationale behind the environmental claim that packaging Gibco™ One Shot™ Fetal Bovine Serum (FBS) in 50 mL bottles results in 33% less plastic waste than aliquotting from 500 mL bottles. Using One Shot FBS bottles results in less risk of contamination, improved consistency, and less waste to manage in the lab.

### Product description

Researchers who aliquot FBS typically freeze and then thaw it at least twice before using it. It is a lengthy process requiring close monitoring and unnecessary reagent handling that can compromise results. One Shot FBS 50 mL bottles eliminate the need to aliquot, which means that the FBS is frozen

and thawed just once. By intentionally designing the bottle to withstand the freeze/thaw process, we have eliminated the risks of cracking or lids popping off, which can happen with conical tubes. The result is less risk of contamination, improved consistency, and more time to spend on your research.

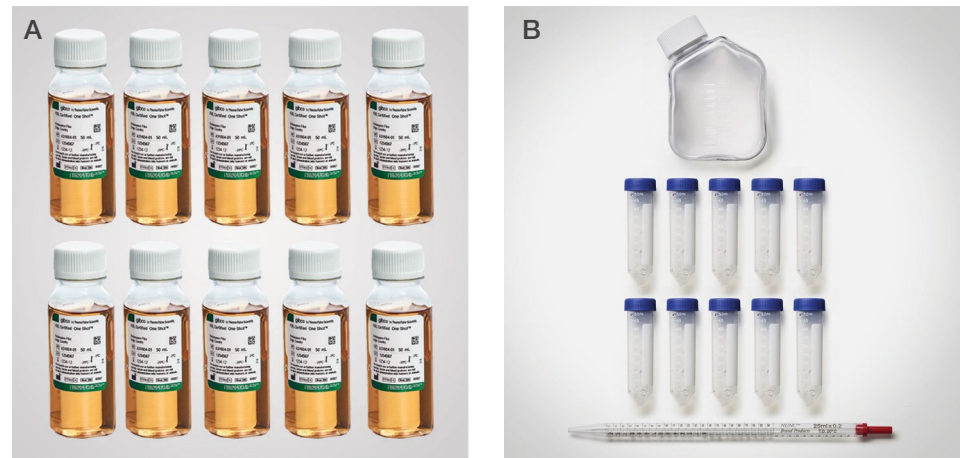


Figure 1. Plastic waste generated by (A) One Shot FBS 50 mL bottles compared to (B) aliquotting FBS from a 500 mL bottle.

**Green feature**

**Less waste**

Using the One Shot FBS 50 mL bottles generates 33% less waste than aliquotting from a 500 mL bottle (Table 1). By using less plastic, less petroleum feedstock is consumed, and less greenhouse gas is generated. In the lab, a typical customer using 20 L of FBS per year would get back almost 7 hours of time and

generate 7 lb less plastic waste by choosing One Shot FBS 50 mL bottles. Less plastic waste means that the One Shot FBS 50 mL bottles help reduce not only our customers' environmental impact but also their waste disposal costs. This supports customers' sustainability programs such as zero waste, while saving time and improving quality and consistency. This represents a win for our company, our customers, and the environment.

**Table 1. Comparison of the amount of plastic waste generated by aliquotting FBS vs. using One Shot FBS packaged in 50 mL bottles.**

Aliquotting a 500 mL FBS bottle			Using One Shot FBS 50 mL bottles		
Steps in procedure	Plastics used	Total weight (g)	Step in procedure	Plastics used	Total weight (g)
1. Original container	One 500 mL bottle	79.4	1. Original container	Ten 50 mL bottles	159.0
2. Aliquot to conical tubes	One 25 mL serological pipette	18.8			
	Ten 50 mL conical tubes	140.3			
	Total	238.5		Total	159.0
				Waste reduction	33%

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