

# Ion 540™ Kit – OT2

Catalog Number A27753

Pub. No. MAN0014031 Rev. A.0

Ion S5™ OT2 Solutions (Part no. A27747)				
Components	Cap color	Quantity	Volume	Storage
Ion OneTouch™ Oil	—	1 bottle	450 mL	15°C to 30°C
Ion PGM™ OT2 Recovery Solution	—	1 bottle	350 mL	
Ion OneTouch™ Reaction Oil	—	1 bottle	25 mL	
Ion OneTouch™ Wash Solution	—	1 bottle	16 mL	
Tween® Solution	—	1 bottle	6 mL	
Nuclease-free Water	—	1 bottle	30 mL	
Ion OneTouch™ Breaking Solution	Black	2 tubes	1.2 mL each	
MyOne™ Beads Capture Solution	Green	2 tubes	1.5 mL each	
ISP Resuspension Solution	Red	1 tube	1.25 mL	
Ion OneTouch™ ES Wash Solution	—	1 bottle	7.2 mL	

Ion S5™ OT2 Supplies (Part no. A27748)				
Components	Cap color	Quantity	Volume	Storage
Ion OneTouch™ Reagent Tubes	—	2 tubes	—	15°C to 30°C
Ion OneTouch™ Recovery Tubes	—	16 tubes	—	
Ion OneTouch™ Recovery Routers	—	8 routers	—	
Ion OneTouch™ Sipper Tubes	—	2 sippers	—	
Ion OneTouch™ 2 Amplification Plate	—	8 plates	—	
Ion OneTouch™ ES Supplies <sup>[1]</sup>	—	1 pack	—	
Ion OneTouch™ Cleaning Adapter <sup>[2]</sup>	—	8 each	—	
Ion OneTouch™ Reaction Filter	—	8 each	—	

<sup>[1]</sup> Ion OneTouch™ ES Supplies include 12 pipette tips and 1 box of ES 8-well strips.

<sup>[2]</sup> Each Ion OneTouch™ Cleaning Adapter is used for *one* cleaning only.

Ion 540™ OT2 Reagents (Part no. A27752)				
Components	Cap color	Quantity	Volume	Storage
Ion S5™ Enzyme Mix	Brown	1 tube	960 µL	-30°C to -10°C
Ion S5™ Reagent Mix	Violet	8 tubes	2 mL	
Ion 540™ ISPs	Black	1 tube	800 µL	

Ion 540™ Loading Reagents OT2 (Part no. A27897)				
Components	Cap color	Quantity	Volume	Storage
Ion S5™ Annealing Buffer <sup>[1]</sup>	—	1 bottle	30 mL	-30°C to -10°C
Ion S5™ Foaming Solution <sup>[1]</sup>	Violet	1 tube	1 mL	
Ion S5™ Loading Buffer <sup>[1]</sup>	Brown	1 tube	80 µL	
Ion S5™ Sequencing Polymerase	Yellow	1 tube	48 µL	
Ion S5™ Sequencing Primer	White	1 tube	160 µL	
Ion 540™ Control Ion Spheres	Clear	1 tube	40 µL	

<sup>[1]</sup> Thaw at room temperature prior to first use, thereafter store at room temperature. Do *not* refreeze.

Ion S5™ Sequencing Solutions (Part no. A27767; 2 boxes supplied per kit)			
Component	Quantity	Volume	Storage
Ion S5™ Wash Solution	4 bottles	1.5 L	15°C to 30°C
Ion S5™ Cleaning Solution	1 bottle	250 mL	

Ion S5™ Sequencing Reagents (Part no. A27768; 2 boxes supplied per kit)		
Component	Quantity	Storage
Ion S5™ Sequencing Reagents	4 cartridges	-30°C to -10°C

**Note:** For safety and biohazard guidelines, refer to the “Safety” appendix in the *Ion 540™ Kit – OT2 User Guide* (Pub. no. MAN0010850). Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves.

## Description

The Ion 540™ Kit – OT2 (Cat. no. A27753) contains 8 boxes total:

- Ion S5™ OT2 Solutions (Part no. A27747)
- Ion S5™ OT2 Supplies (Part no. A27748)
- Ion 540™ OT2 Reagents (Part no. A27752)
- Ion 540™ Loading Reagents OT2 (Part no. A27897)
- Ion S5™ Sequencing Solutions (Part no. A27767) 2 boxes per kit
- Ion S5™ Sequencing Reagents (Part no. A27768) 2 boxes per kit

The Ion 540™ Kit – OT2 contains reagents sufficient for 8 reactions of template preparation and sequencing using the Ion OneTouch™ 2 System, and Ion S5™ or Ion S5™ XL Systems. Store the kit components as directed. For more information, refer to the *Ion 540™ Kit – OT2 User Guide* (Pub. no. MAN0010850).

## Precautions

Handle biological samples and all other materials according to local laboratory guidelines and regulations. Avoid cross-contamination of samples and reagents to ensure quality results.

If equipment or reagents are used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

**IMPORTANT!** Do not substitute components in this kit with components from other Ion Torrent™ template kits. This protocol has been verified using these specific materials. Substitution may adversely affect system performance. The Ion S5™ Reagent Mix is shipped at -30°C to -10°C. Immediately before use, thaw tube(s) as needed. Store the thawed Ion S5™ Reagent Mix at 2°C to 8°C.

**Note:** Refer to the expiration date on the package label. Do not use kits after the expiration date.

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  - Safety Data Sheets (SDSs; also known as MSDSs)

**Note:** For SDSs for reagents and chemicals from other manufacturers, contact the manufacturer.

The information in this guide is subject to change without notice.

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