

## MagDTR™ Dye Terminator Removal Resin

Product	Catalog #	Size	# purify.
MagDTR Dye Terminator Removal Resin	41744	5 ml	1250
MagDTR Dye Terminator Removal Resin	21971	25 ml	6250
MagDTR Dye Terminator Removal Resin	34262	125 ml	31250
MagDTR Dye Terminator Removal Resin	60891	500 ml	125000

### Description

The MagDTR Dye Terminator Removal Resin is a magnetic resin suspension that preferentially binds sequencing reaction products. The process is facilitated by the addition of alcohol to the sequencing reaction mix. The resin is washed with alcohol and purified products are eluted in water.

### Kit

Components	41744	21971	34262	60891
MagDTR Resin	5 ml (PN 4050175)	25 ml (PN 4050176)	125 ml (PN 4050177)	500 ml (PN 4050178)

### Equipment and Materials Required

1. Magnetic Separator plate (MagWell™ Magnetic Separator 96 Cat. # 57624 for 96-well formats)
2. Multi-channel pipette
3. 96-well microplate.
4. 100% Ethanol
5. Solution Reservoir

### Storage Condition

Store the MagDTR Resin at Room Temperature. Do not freeze.

### Quality Control

Tested for sequencing quality and accuracy on a capillary sequencer.

### Recommended Protocol for Manual Application

1. Shake the resin bottle to re-suspend the contents.
2. Transfer the resin to a suitable reservoir.
3. Re-suspend magnetic resin in the reservoir by rapid pipet mixing, and dispense 4µl of the magnetic resin to the sequencing reaction.

**Note:** Due to the tendency of the resin to settle, it is important to mix the resin prior to dispensing. Do not allow the resin to sit for more than 30 seconds before dispensing. Do not use a repeat pipettor to dispense the resin.

4. Add 2 volumes of 100% ethanol relative to the total volume from Step 3. Immediately pipet mix 10 times. Incubate at room temperature for 5 minutes

(*Example:* For a 10 µL sequencing reaction + 4 µL resin, add 28 µL of 100% ethanol)

5. Set the plate on the magnetic separator, set pipet to 100µl, aspirate very slowly and discard the ethanol.

**Note:** It is critical to remove all ethanol at this step because it contains excess fluorescent dyes. Be sure to expel all residual ethanol from tip prior to subsequent aspirations, if needed.

6. Remove plate from the magnetic separator, transfer 100µl of 80% ethanol to the sequencing reaction samples, pipet mix gently 15 times.

7. Set plate on the magnetic separator, set pipet to 150µl, aspirate very slowly and discard the ethanol.

**Note:** It is critical to remove all ethanol at this step because it contains excess fluorescent dyes. Be sure to expel all residual ethanol from tip prior to subsequent aspirations, if needed.

8. Repeat steps 6 and 7.

9. Remove plate from the magnetic separator.

**Warning:** This product is intended for **research use only**. It is not to be used for diagnostic purposes in humans or animals.

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10. Air dry at room temperature for a minimum of 5 minutes, or until all ethanol has evaporated.

**Note:** Drying time can be reduced by using a heat block set at 98°C for 30 seconds.

11. Add 20µl of de-ionized water to the resin.

**Note:** For sample elution, consult the instrument manufacturer's recommendation for sample handling.

12. Pipet mix 20 times rapidly to disperse resin.

**Note:** It is not necessary to completely disperse the resin to achieve optimal yields.

Place plate on the magnetic separator for 10 seconds, and transfer the supernatant for sequencing. The eluate contains purified sample ready for loading on sequencers.

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