

PERFORMA[®] DTR V3 96-Well Short Plates

Product	Catalog #	Purifications
Performa DTR V3 96-Well Short Plates (2 Plates)	63887	192
Performa DTR V3 96-Well Short Plates (10 Plates)	89939	960

Description

Performa DTR (**D**ye **T**erminator **R**emoval) V3 96-Well Short Plates are gel filtration plates that consist of 440- μ l volume columns in a standardized array. This plate provides optimal performance for removal of BigDye[®] v3.0 and v3.1, along with other dye terminators, dNTPs, salts and other low molecular weight materials from sequencing reactions. These columns also remove DNA primers and fragments up to 15 bases, buffers, and nucleotides labeled with biotin, isotopes and other assorted markers.

The columns are pre-packed with a fully hydrated matrix to afford optimal handling and performance characteristics. To minimize the potential for interference with sequencing applications, no preservatives, salts or buffers are used in the preparation of these columns. Both ends of the Performa DTR V3 96-Well Short Plates are sealed to prevent drying.

The sample can be spun directly into the ABI PRISM[®] MicroAmp[®] Optical 96 Well Reaction Plate or equivalent (96-Well Semi-Skirted Capillary Plates) thereby saving a transfer step.

Component	63887	89939
Performa DTR V3 96-Well Short Plate	2 plates (2 x PN 4050203)	10 plates (10 x PN 4050203)
96-Well Plate Lids	2 lids (PN 4050094)	10 lids (2 x PN 4050095)
96-Well Flat Bottom Polystyrene Plates	2 plates (PN 4050096)	10 plates (2 x PN 4050097)
96-Well Semi-Skirted Capillary Plates	2 plates (PN 4050206)	10 plates (2 x PN 4050205)

Equipment and Materials Required

1. Variable speed centrifuge (benchtop or floor model)
2. Rotor and microplate carriers for above.

Storage Condition

Store at +4°C. Do not freeze.

Quality Control

Field-tested for sequence quality and sequencing accuracy on capillary sequencers.

Recommended Protocol for 5 μ l–15 μ l Sequencing Reaction Volumes

1. **Bring reaction volume to at least 10 μ l with distilled water before adding to the V3 96-Well Short Plate.**
2. **Remove the bottom and top adhesive tapes from a V3 96-Well Short Plate. Cover with lid.**
 - Note: Remove the bottom adhesive tape first.
 - Ensure that the plate remains horizontal to avoid losing any gel.
3. **Stack the V3 96-Well Short Plate on top of a 96-well waste plate. Place assembly on a rubber cushion in the centrifuge carrier.**
 - Note: Edge BioSystems supplies rubber cushions designed to fit within the skirt of the 96-well plate and prevent cracking of the receiver plate. Cushions are available at no charge.
4. **Centrifuge for 3 minutes at 850 x g.¹ Discard eluate.**
 - See “Additional Notes” for determination of RPM from RCF or visit our website at www.edgebio.com and click on Technical Support.
5. **Transfer the reaction samples in a volume of 10-15 μ l to the center of each well in the V3 96-Well Short Plate. Pipet slowly. Do not touch the sides of the wells. Cover with lid.**
6. **Stack the V3 96-Well Short Plate on top of a 96-well Semi-Skirted Capillary Plate. Place the assembly on a rubber cushion in the centrifuge carrier designed to hold deep-well 96-well plates.**
7. **Centrifuge for 5 minutes at 850 x g. Retain eluate.**
 - The eluate contains purified sample ready for loading on sequencers.

Note: Consult the instrument manufacturer's recommendation for sample handling.



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Additional Notes

1. Conversion of RCF to RPM Calculation:

An accurate determination of the centrifugation speed is very important. The relative centrifugal force (RCF) specified in the protocol is converted to revolutions per minute (RPM) using the following formula:

$$RCF = 1.12 r \left(\frac{RPM}{1000} \right)^2$$

The radius, r , is equal to the distance in millimeters between the axis of rotation and the bottom of the gel bed when the plate is placed in the plate carrier in the centrifuge bucket.

After measuring the radius for the specific centrifuge and accessories to be used, the proper RPM setting is calculated as follows:

$$RPM = 1000 \sqrt{\frac{RCF}{1.12 r}}$$

To achieve RCF = 850 x g:

$$RPM = 27,549 \sqrt{\frac{1}{r}}$$

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

Page 2 of 2



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