



Troubleshooting Guide for PERFORMA[®] DTR Ultra 96-Well Plates

PROBLEM	POSSIBLE CAUSE	SUGGESTED SOLUTIONS
Signal intensity low	Centrifuge conditions were not optimal	Recalculate rpm to achieve 850 x g for your centrifuge.
	Sequencing reaction conditions were not optimal	Adjust sequencing reaction parameters; consult sequencing reagent manufacturer's recommendations
Dye blobs	Too large a volume was loaded	Load no more than 20µl.
	Centrifuge conditions were not optimal	<ul style="list-style-type: none"> Be certain that the pre-spin is for 5 minutes at 850 x g. Recalculate rpm to achieve 850 x g for your centrifuge.
	Samples were not loaded properly	Load the samples slowly, drop-wise to the center of the gel matrix.
	Signal intensity too high	Use no more than 0.5X BigDye [®] v3.1 concentrations, e.g. 4µl of BigDye [®] v3.1 per 20µl reaction.
	Sequencing reactions conditions were not optimal	Adjust sequencing reaction parameters; consult sequencing reagent manufacturer's recommendations
Truncation of 5' sequence	Centrifuge conditions were not optimal	Recalculate rpm to achieve 850 x g for your centrifuge.
	Dye blobs present	See Dye blobs above.
	Sequencing reaction conditions not optimal	Adjust sequencing reaction parameters; consult sequencing reagent manufacturer's recommendations.



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PROBLEM	POSSIBLE CAUSE	SUGGESTED SOLUTIONS
Recovery volume higher than expected	Centrifuge conditions were not optimal	<ul style="list-style-type: none"> • Be certain that the pre-spin is for 5 minutes at 850 x g. • Recalculate rpm to achieve 850 x g for your centrifuge. • Increase the length of the initial and final spin by 30 seconds.
	More than 20µl of sequencing reaction loaded	Decrease volume of sequencing reaction loaded to 5-20 µl.
Recovery volume lower than expected	Centrifuge conditions were not optimal	<ul style="list-style-type: none"> • Recalculate rpm to achieve 850 x g. • Spin samples for at least 5 minutes at 850 x g. • Decrease the length of the initial spin by 30 seconds.
	Plate was stored incorrectly. If you observe a low recovery volume after the first spin, it is likely the plate has been dehydrated	<ul style="list-style-type: none"> • Store plates at 4°C. • Plates sealed in original bag can be left at room temperature for short periods of time, but should be store at 4°C.

For additional troubleshooting assistance, please contact Edge BioSystems at:

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