

TBE Gels

Pub. Part No. IM-6003 MAN0005882 Rev. Date 20 December 2011

Instructions are provided below for electrophoresis of TBE Gels using the XCell <code>SureLock® Mini-Cell</code>. For details, refer to the <code>Novex® Technical Guide</code> available at www.lifetechnologies.com/manuals or contact Technical Support.

Prepare	Reagent		Sample
Samples	Sample		xμL
	TBE Hi-Density Sam	ple Buffer (5X)	2 μL
	Deionized Water		to 8 μL
	Total Volume		10 μL
Prepare 1X Buffer	Add 200 mL 5X TBE Running Buffer to 800 mL deionized water to prepare 1X TBE Running Buffer.		
Load Sample	Load the appropriate concentration and volume of your DNA sample on the gel.		
Load Buffer	Fill the Upper Buffer Chamber with 200 mL and the Lower Buffer Chambe with 600 mL of 1X TBE Running Buffer.		
	WILL OUT IIL OF IX II	be Kulling bullet.	
Run	Voltage:	200 V constant	
		200 V constant	ndent on gel percentage)

For research use only. Not for human or animal the rapeutic or diagnostic use.



TBE Gels

Blotting Conditions

For blotting TBE gels, use 0.5X TBE Running Buffer. Perform transfer with nylon membranes at 30 V constant for 1 hour using the XCell II^{$^{\text{M}}$} Blot Module. The expected start current is 360 mA and end current is 270 mA.

Dye Front Migration

The size of DNA fragments visualized at the dye fronts of the different TBE Gels is shown in the table below.

Gel Type	Dye Front*		
	Bromophenol Blue (dark blue)	Xylene Cyanol (blue green)	
6%	65 bp	250 bp	
8%	25 bp	220 bp	
10%	35 bp	120 bp	
20%	15 bp	50 bp	
4–12%	35 bp	400 bp	
4-20%	25 bp	300 bp	

^{*}Accuracy ± 5 bp

©2011 Life Technologies Corporation. All rights reserved. The trademarks mentioned herein are the property of Life Technologies Corporation or their respective owners.

Limited Use Label License: Research Use Only: The purchase of this product conveys to the purchaser the limited, non-transferable right to use the purchased amount of the product only to perform internal research for the sole benefit of the purchaser. No right to resell this product or any of its components is conveyed expressly, by implication, or by estoppel. This product is for internal research purposes only and is not for use in commercial applications of any kind, including, without limitation, quality control and commercial services such as reporting the results of purchaser's activities for a fee or other form of consideration. For information on obtaining additional rights, please contact outlicensing@ lifetech.com or Out Licensing, Life Technologies, 5791 Van Allen Way, Carlsbad, California '2008.

life technologies™