Novex[™] Zymogram Plus Gels

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Instructions are provided below for electrophoresis of Novex[™]Zymogram Plus Gels using the XCell *SureLock[™]* Mini-Cell or Mini Gel Tank. For details, contact Technical Support.

Prepare Samples	Reagent		Sample	
	Sample		xμL	
	Tris-Glycine SDS Sample Buffer (2X)		5 µL	
	Deionized Water		to 10 μL final	
	Do not heat or reduce samples for Zymogram gels.			
Prepare 1X Buffer	1X Tris-Glycine SDS Running Buffer : Add 100 mL 10X Tris-Glycine SDS Running Buffer to 900 mL deionized water.			
in baller	Load the appropriate concentration and volume of your protein on the gel.			
Load Sample				
Add Buffer	Fill the Upper Buffer Chamber with 200 mL, and the Lower Buffer Chamber with 600 mL of 1X Tris-Glycine SDS Running Buffer.			
	XCell SureLock™ Mini-Cell			
Run	Voltage:	125 V constant		
Conditions	Run Time:	105 minutes		
	Expected Current:	30 mA/gel (start); 13 m	nA/gel (end)	
	Mini Gel Tank			
	Voltage:	125 V constant		
	Run Time:	85 minutes		
	Expected Current:	37 mA/gel (start); 14 m	nA/gel (end)	
	Note: Run times and currents may vary depending on power supply.			

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Novex[™] Zymogram Plus Gels

Develop Gel	1.	Dilute Novex [™] Zymogram Renaturing Buffer (10X) and Novex [™] Zymogram Developing Buffer (10X) 1:9 with deionized water. Prepare 100 mL of each 1X buffer per 1–2 mini-gels.		
	2.	After electrophoresis, incubate the gel in 1X Zymogram Renaturing Buffer for 30 minutes at room temperature with gentle agitation.		
	 Decant Zymogram Renaturing Buffer and add 1X Zymogram Developing Buffer to the gel. 			
	4. Equilibrate the gel for 30 minutes at room temperature with gentle agitation.			
	5.	Decant buffer and add fresh 1X Zymogram Developing Buffer to the gel.		
	 Incubate the gel at 37°C for at least 4 hours or overnight for maxim sensitivity. Optimize results empirically by varying the sample loa- incubation time. 			
Stain Gel	S S	Stain the gels with the Colloidal Blue Staining Kit (Cat. No. LC6025) or the SimplyBlue™ Safestain (Cat. No. LC6060). Areas of protease activity appear as clear bands against a dark background.		
Sensitivity Level	1	0% Novex [™] Zymogram Plus (Gelatin) Gel: 10 ⁻⁶ units of collagenase		

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