

SilverXpress[®] Silver Staining Protocols

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WARNING! Before handling, read all applicable Safety Data Sheets (SDSs) at www.lifetechnologies.com/support.

The following protocol is for one mini-gel, 1.0-mm thick.

- For 1.5-mm thick mini-gels, double all incubation times.
- For 1.0-mm thick Novex® midi-gels, use ~1.5 times the volume of reagents recommended for a mini-gel.
- For detailed instructions and troubleshooting, refer to the instruction manual included with the kit.
- For samples reduced with DTT, use the procedure for NuPAGE $^{\circ}$ Bis-Tris Gels.

Step	Reagents	 Tris-Glycine Gels NuPAGE[®] Tris- Acetate Gels 	 Tricine Gels NuPAGE[®] Bis-Tris Gels (or Samples reduced with DTT)
eit.	Ultra Pure Water 90 mL Methanol 100 mL Acetic Acid <u>20 mL</u> Final Volume:* 200 mL	1 200 mL 10 min	1 200 mL 10 min
SENSITIE	Ultra Pure Water 105 mL Methanol 100 mL Sensitizer <u>5 mL</u> Final Volume:* 200 mL	2 100 mL 10 min 3 100 mL 10 min	2 100 mL 30 min 3 100 mL 30 min
WASH	Ultra Pure Water 400 mL	4 200 mL 5 min 5 200 mL 5 min	NuPAGE® Tricine Bis-Tris 200 mL 5 min 10 min 200 mL 5 min 10 min
STAIN	Stainer A5 mLStainer B5 mLUltra Pure Water90 mLFinal Volume:100 mL	6 100 mL 15 min	6 100 mL 15 min
WASH	Ultra Pure Water 400 mL	7 200 mL 5 min 8 200 mL 5 min	7 200 mL 5 min 8 200 mL 5 min
DEVELOP	Developer 5 mL Ultra Pure Water <u>95 mL</u> Final Volume: 100 ml	9 100 mL 3-15 min	9 100 ml 3-15 min
STOP	Stopper 5 mL Add directly to the developing solution.	10 5 mL 10 min	10 5 mL 10 min
WASH	Ultra Pure Water 600 mL	11 200 mL 10 min 12 200 mL 10 min 13 200 mL 10 min	1 200 mL 10 min 1 200 mL 10 min 3 200 mL 10 min 1 200 mL 10 min 1 200 mL 10 min

when these reagents are mixed. Do not adjust volumes of components or final volume.

For research use only. Not for use in diagnostic procedures.

The following protocol is for one mini-gel, 1.0-mm thick.

- For 1.5-mm thick mini-gels, double all incubation times. •
- For detailed instructions and troubleshooting, refer to the instruction manual included in the kit.
- For samples reduced with DTT, use the procedure for NuPAGE® Bis-Tris Gels (other side). •

Step	Reagents	• IEF Gels • Native Gels	• TBE Gels • TBE-Urea Gels
F14	Ultra Pure Water 200 mL TCA 24 g Sulphosalicylic Acid 7 g Final Volume: 200 mL	1 100 mL 10 min 2 100 mL 10 min	1 200 mL 10 min
SENSITIZE	Ultra Pure Water 105 mL Methanol 100 mL Sensitizer <u>5 mL</u> Final Volume:* 200 mL	3 100 mL 30 min 4 100 mL 30 min	2 100 mL 10 min 3 100 mL 10 min
WASH	Ultra Pure Water 400 mL	5 200 mL 5 min 6 200 mL 5 min	 200 mL 5 min 200 mL 5 min
STAIN	Stainer A5 mLStainer B5 mLUltra Pure Water90 mLFinal Volume:100 mL	⁊ 100 mL 15 min 🗌	6 100 mL 30 min
WASH	Ultra Pure Water 400 mL	8 200 mL 5 min 9 200 mL 5 min	7 200 mL 5 min 3 200 mL 5 min
DEVELOP	Developer 5 mL Ultra Pure Water 95 mL Final Volume: 100 mL	100 mL 3-15 min	9 100 mL 3-15 min
STOP	Stopper 5 mL Add directly to developing solution.	11 5 mL 10 min 🔲	🔞 5 mL 10 min 🗌
WASH	Ultra Pure Water 600 mL	12 200 mL 10 min 13 200 mL 10 min 14 200 mL 10 min	11 200 mL 10 min 12 200 mL 10 min 13 200 mL 10 min

*The final volumes of solutions containing methanol and water account for a volume shrinkage that occurs when these reagents are mixed. Do not adjust volumes of the components or the final volume.

Limited Product Warranty eral Terms and Conditions of Sale found on Life Technologies' website at www lifetechnologies Life Technologies Corporation and/or its Technologies at www.lifetechnologies.co erty of Life Technologies Corporation or their respective of

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