



Stain77

New Electron Microscopy (EM) Stain based on Lithium and tungsten Salts for positive and negative stain

Stain77 is a **revolutionary stain** designed for electron microscopy, offering a **non-toxic alternative** with its unique blend of two contrast agents: lithium and tungsten salts.

Stain77 provides outstanding results with minimal toxicity, making it a **safer and more efficient** choice for researchers. It is suitable for various biological samples, ensuring reliable and consistent contrast across a wide range of applications. One of the standout features of Stain77 is its ability to deliver **high-quality contrast while being gentle on the samples**.

Key Features:

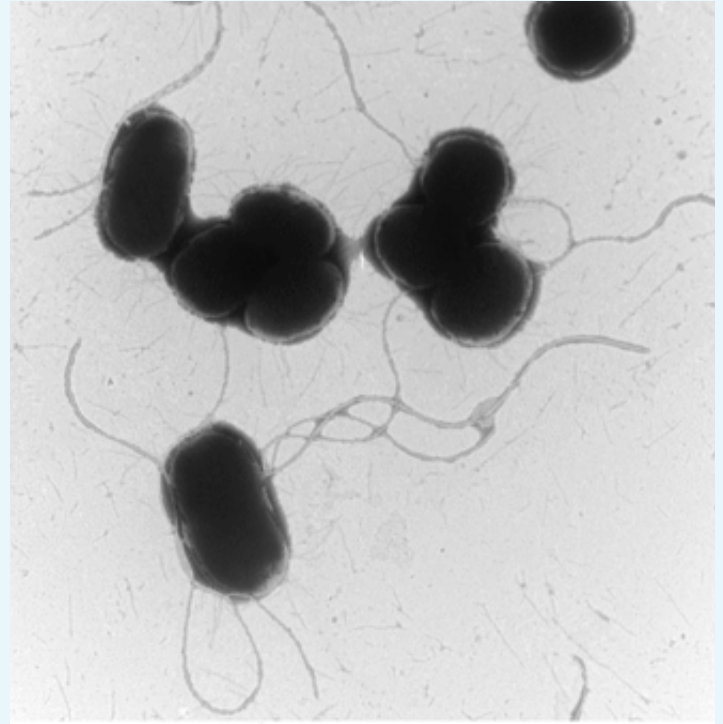
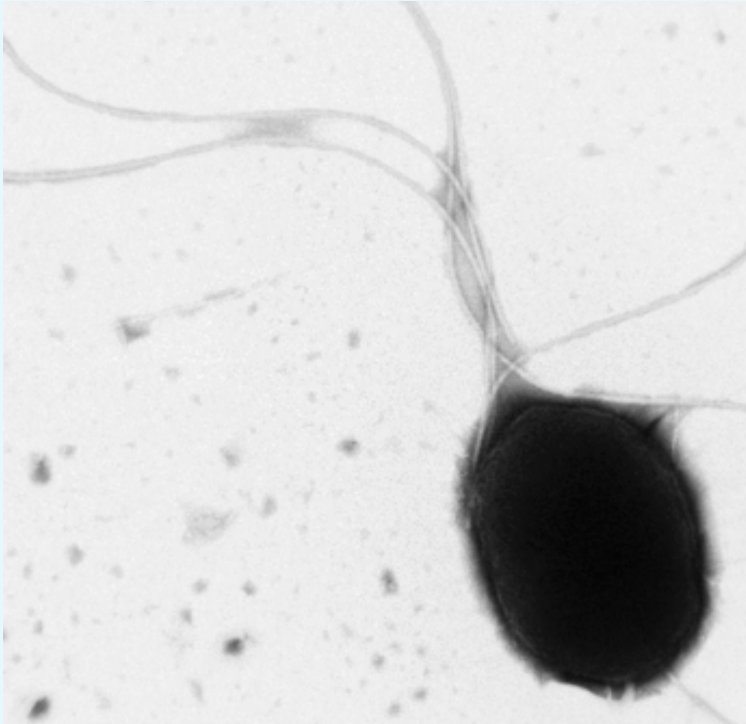
- **Non-toxic formulation:** Stain77 is lithium- and tungsten-based and poses minimal toxicity risks compared to traditional stains, making it safer for laboratory use.
- **Versatile Application:** It is effective for both positive and negative staining in electron microscopy.

Packaging:

- **Airless Bottle:** 30 ml bottle designed for precise drop application similar to Uranyless.
- **Bulk Option:** Available in 100ml and 200 ml packaging for automated stainers such as Leica or RMC systems.

Stain77 a better stain

for technical Negative stain.

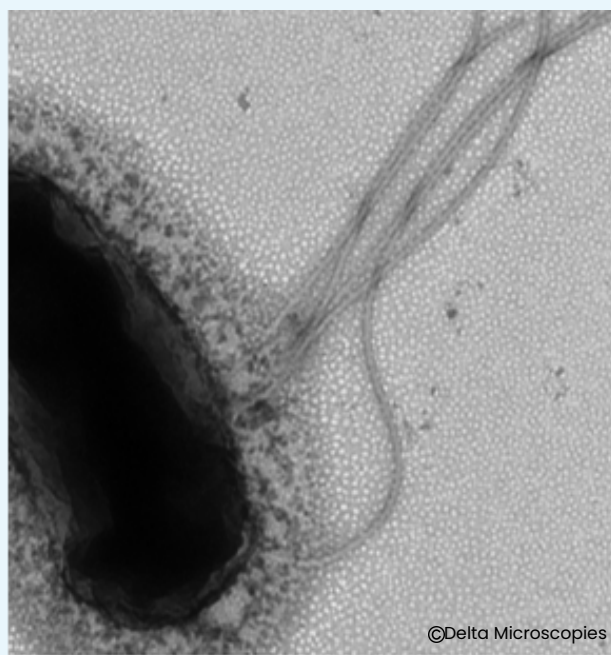
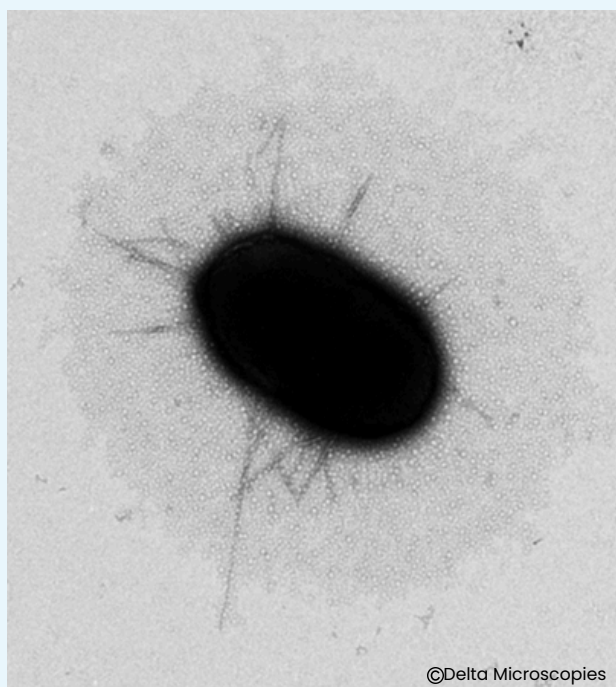


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Performance and Compatibility

In cases where UranylLess may not deliver optimal results, Stain77 serves as an ideal alternative to aqueous UranylLess. It provides highly satisfactory results for negative staining techniques and **ensures greater reproducibility of your negative stains**. If the contrast is too strong, after draining your grid following negative staining, let it float on a drop of distilled water for one minute, then drain and dry before TEM observation. For positive staining on ultra-thin sections, Stain77 yields results comparable to UranylLess.

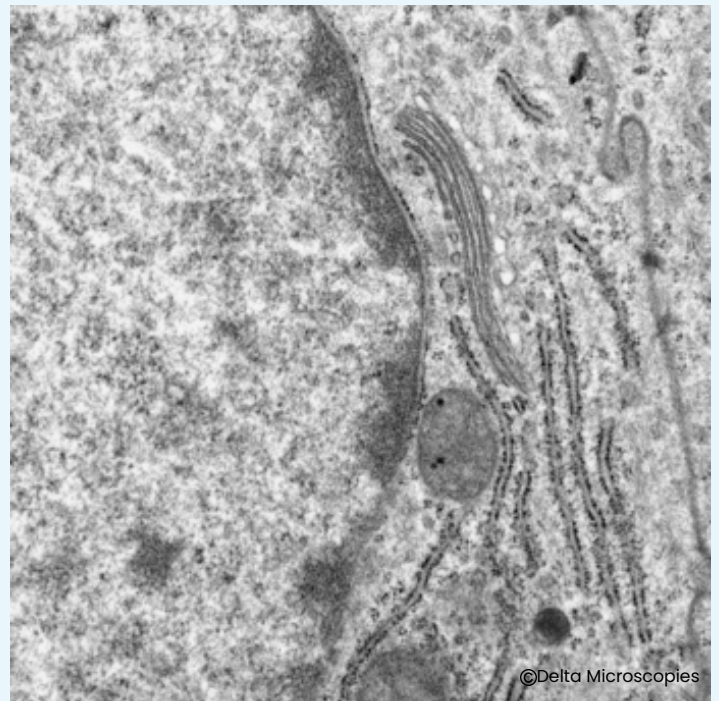
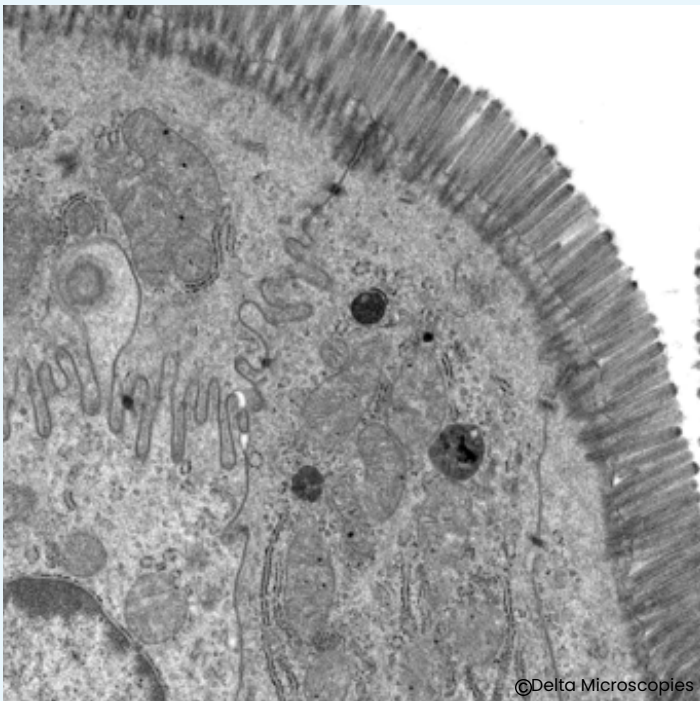
**1-minute staining with Stain77, the best negative EM stain tested
by our R&D team**
(not post-staining with lead citrate)



Protocol :

- Apply Stain77 for 1 minute on ultrathin sections or during negative staining of isolated particles.
- Gently drain the stain on filter paper after contact.
- Post-stain with lead citrate **only for positive staining techniques on ultrathin sections** for 30–60 seconds.
- Perform a brief rinse with distilled water to finalize the process.

Ultra-thin sections - Positive stain



Enhanced Contrast: Stain77 provides a subtle yet effective contrast, improving the visualization of cellular organelles. When combined with lead citrate, it precisely highlights cellular membranes and compartments.

Low pH & Stability: The stain is formulated with a pH close to 7, ensuring long-term stability. It can be applied on a laboratory bench without the need for specialized equipment.