

ATOM Injection — Administration & Handling Guide

TARGETED INJECTION · ASEPTIC TECHNIQUE · THAW · COMBINE & INJECT

<p>PRODUCT</p> <p>ATOM Injection</p>	<p>FORMAT</p> <p>1 / 2 ML</p>	<p>COMBINE WITH</p> <p>ATOM X native exosomes / secretomes</p>	<p>CRYOPRESERVATION</p> <p>XT-Thrive® DMSO-free</p>
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Live-cell product for targeted injection. ATOM Injection is combined in-syringe with ATOM X at point of use. Once thawed, viability is time-sensitive — observe the 5-minute rule. This guide covers product handling and preparation; clinical judgment, patient selection, injection site, and technique remain the responsibility of the treating licensed provider.

◆ Infection Control — The First Priority

BEFORE ANYTHING ELSE

*Protecting against infection is the **number one priority.***

Every step is performed under strict aseptic technique. Wash hands thoroughly and wear gloves whenever handling the stem cell vials. Use sterile needles and sterile supplies throughout — sterile everything. The injection site must be fully cleaned and prepped before any product is administered. When the field is sterile and the site is clean, proceed.

- **Hands washed; gloves on** before handling any vial
- **Prep the site** with alcohol or iodine until visibly clean
- **Sterile needles & supplies** — single-use, never reuse
- **Confirm no allergy** to the chosen prep agent before use

◆ What You'll Need

- **ATOM Injection (1/2 mL)** — from cryogenic storage at point of use
- **Skin prep** — alcohol or iodine (allergy-confirmed)
- **ATOM X** — native exosomes / secretomes
- **Sterile gloves**, gauze, dressing
- **Sterile syringe** + appropriate draw & injection needles
- **Sharps container** & standard PPE

◆ The 5-Minute Rule

STORAGE	-80°C freezer or liquid nitrogen until point of use
THAW METHOD	Natural / room temperature, approx. 5 minutes — no external heat source
THAW-TO-INJECT	Under 5 minutes — prep the site first, then thaw & combine
RE-FREEZING	Not permitted — single thaw, single use
ANESTHETIC MIXING	Never combine with lidocaine or any anesthetic — denatures the biologic
DOCUMENTATION	Retain the lot COA accompanying each shipment with the patient record

◆ Step-by-Step Injection Administration

- 1 Establish a sterile field & prep the site first**
 Wash hands and glove up. Set out sterile needles and supplies. **Confirm the patient has no allergy** to your prep agent, then clean the injection site thoroughly with alcohol or iodine until visibly clean. Prep the site **before** retrieving product, so there is no delay once thawed.
- 2 Retrieve & thaw — start the clock**
 Only now retrieve ATOM Injection and ATOM X from -80°C / liquid nitrogen storage. Thaw naturally at room temperature (~5 min) — no external heat, no vigorous agitation. **Once thawed, you are on the 5-minute clock.**
- 3 Draw up & combine in the syringe**
 Using a sterile needle, draw up ATOM Injection, then draw ATOM X into the **same syringe** to combine the two. Handle gently — avoid foaming or harsh agitation, which stresses live cells. Do not add lidocaine or any anesthetic to the syringe.
- 4 Mix gently & confirm**
 Gently bring the combination into an even, well-mixed solution. Swap to a fresh sterile injection needle if your draw needle is not your injection needle.
- 5 Inject — slowly & deliberately**
 Re-confirm the site is clean. Administer the combined product to the target site per your clinical judgment, as a **slow, deliberate injection**. Take your time — do not rush. See the rule below.
- 6 Dress the site & monitor**
 Apply a sterile dressing. Dispose of sharps appropriately. Monitor the patient per your facility's post-procedure observation standards.

THE ATOM METHOD — SLOW, STERILE, UNHURRIED

*Sterile field. Combine in-syringe. **Take your time.***

ATOM Injection and ATOM X are combined in the syringe and delivered as a slow, controlled injection. Easing the product in gradually — under strict aseptic technique from start to finish — is the standard for every ATOM injection. Infection control is never compromised for speed, and there is no benefit to rushing the administration.

◆ Precautions

- ✗ Never compromise sterile technique — infection prevention is the first priority
- ✗ Never inject without confirming the site is clean and the patient is not allergic to the prep agent
- ✗ Never mix with lidocaine or any anesthetic — it will denature the biologic
- ✗ Do not apply external heat to thaw; do not agitate vigorously
- ✗ Do not re-freeze; single thaw, single use
- ✗ Patient selection, injection site, monitoring & adverse-event management are the provider's responsibility

For licensed-provider use only. This guide covers product handling and preparation and reflects ATOM Stem Cells' handling standards. It is not a substitute for clinical judgment and is not intended to diagnose, treat, or cure any disease. The treating provider is solely responsible for patient selection, dosing decisions, sterile technique, injection site, monitoring, and management of any adverse event.