

The Sterilization Process Matters

Autoclave vs. Gamma Irradiation Sterilization

Terminal Sterilization of Saline Flush Syringes are Accomplished in 2 ways:

1 Autoclave Terminal Sterilization

- A Saline Filled Syringe is placed in an Autoclave where the solution is exposed to extreme temperatures to sterilize the Syringe
- After the Autoclave Cycle is complete, the Syringe is packaged inside, a Non-Sterile overwrapped dust cover, and case packaged

Autoclave Terminal Sterilization Issues to Consider:

- Plastics that are exposed to high heat, draws out VOCs which may be toxic
- The plunger tip may adhere to the barrel causing a Piston Lock Effect which needs a jolt to activate the Syringe

2 Aquabiliti Terminal Gamma Irradiation Sterilization

- Gamma Irradiation of a Filled Syringe is a low temperature sterilization process that sterilizes the Saline after being packaged
- Aquabiliti SFP and SFR packaging is Gamma Irradiated, eliminating the need for post-process handling which has the potential for contamination

Aquabiliti Terminal Gamma Irradiation Sterilization Process Benefits:

- All Aquabiliti Saline Flush Syringes (SFP and SFR) are sterilized after final packaging
- Gamma Irradiation does not utilize heat to sterilize and therefore has less VOCs
- Smooth operation means less waste, less mess, and great clinican control

This introduces a Non-Sterile Packaged Product:

- A Non-Sterile Exterior Syringe used for an Aseptic or Sterile Procedure

This introduces a Complete Gamma Irradated Packaged Product yielding a:

- Sterile Saline Solution
- Gamma Irradiated Syringe
- Gamma Irradiated Package



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Aquabilti: Radiation Sterilization

STERILE R



Fill Syringe



Label Syringe



Overwrap or Pouch



Inner Carton Packaging



Shipper Case Packaging



Radiation Sterilization



NO Handling Post Sterilization



Distribution



Point of Care Utilization

Others: Steam Sterilization

STERILE



Fill Syringe



Label Syringe



Steam Sterilization



Handling Post Sterilization



Overwrap or Pouch*



Inner Case packaging*



Shipper Case packaging*



Distribution



Point of Care Utilization

**Potential for contamination*