

Product Name

Name: Highly Purified Water (DNase and RNase-free), SLE Grade, NTA Passed

Cat. No.: C3562-0500

Size: 500 mL

Product Description

Highly Purified Water is produced through a series of purification processes including reverse osmosis (RO), deionization (DI), and ultrafiltration, and is free of DNase and RNase. Reverse osmosis is a pressure-driven membrane separation process in which pressure is applied to a solution to allow water molecules to pass across a semipermeable membrane, producing purified water on the permeate side while retaining concentrated solutes on the feed side.

This product is classified as Super Low Endotoxin (SLE) grade, with endotoxin levels ≤ 0.1 EU/mL. The manufacturing process and quality management system comply with cGMP requirements and are certified in accordance with ISO 13485.

Nanoparticle Tracking Analysis (NTA) technology is used to evaluate the particle size distribution of suspended nanoparticles in liquid samples based on light scattering and Brownian motion. Using ZetaView analysis, particles ranging from 10 nm to 2000 nm can be directly tracked and analyzed individually to obtain precise particle size data. This product has passed NTA testing, with a particle concentration of $< 1 \times 10^5$ particles/mL.

Storage and Stability

Store at **15–30°C**, protected from light.

Shelf life: 36 months from date of manufacture.

Procedure

1. Remove the product from storage at room temperature, read the label, and inspect the packaging and solution appearance.
2. Wipe the outer surface of the bottle with a disinfectant such as 70% ethanol and place it into a laminar-flow or clean bench.
3. Handle and use the product aseptically according to standard laboratory protocols.

Quality Control

Highly Purified Water is tested for pH, sterility, endotoxin, DNase, and RNase.

Precaution and Disclaimer

For research use only, not for clinical diagnosis, and treatment.