

Certificate of Analysis

Product: **Zetadex-25 Medium (Hydrated)**
70% slurry, hydrated in water with 0.15% ProClin 150

Product Code: TM-0128

Lot: CX0770605N
Bottle IDs: CX077-A011 to CX077-A020
Date of Analysis: May 5, 2020
Expiry Date: May 2023
Quality Controller: MB

Quality Parameter	Specification	Lot Data
Dry Particle Size:	50 - 150 µm (> 80% m)	Conforms
Water Regain:	2.15 - 2.25 mL/g	2.19 mL/g
Swelling:	4 - 6 mL/g	4.25 mL/g
Slurry concentration:	70% v	Conforms
Appearance:	White gel suspension	Conforms

Application Note

Zetadex-25 Medium is a size-exclusion matrix. Molecules purified with Zetadex-25 Medium are separated according to size. Smaller molecules pass significantly slower through the column than larger molecules. Buffer and pH effects on resolution are minimal. The size exclusion cut-off for Zetadex-25 Medium is set at 5 kD for proteins and 10 bp for nucleic acids. Purified biomolecules are not significantly diluted when processed using Zetadex-25 Medium.

Precautions for Safe Handling

Contains ProClin® 150 as preservative. As part of good industrial safety and personal hygiene, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing. Wear gloves when handling. Keep container tightly closed. Suitable for any general chemical storage area.

Other Product Properties

Bead structure: Cross-linked spherical dextran composite

Bead size (Dry): 50 - 150 µm

Bead size (Wet): 85 - 260 µm

Maximum operating pressure: Generally obeys Darcy's Law: $U = K_o \frac{\Delta P}{L}$ where

U = linear flow rate, cm/hour
ΔP = pressure drop over gel bed, cm H₂O
L = bed ht, in cm
K_o = 80 for Z-25 Medium

Chemical stability: All commonly used buffers, including: 0.2M NaOH; 0.2M HCl; 1M acetic acid; 8M urea; 6M guanidine HCl; 1% SDS; 24% Ethanol; 30% Propanol; 30% Acetonitrile.

pH stability: 2.0 to 13.0

Autoclavable: 121°C, pH 7 for 30 minutes

Storage & Shipping: 2 to 30°C

Preservative: 0.15% ProClin 150

The use of this product is strictly limited to trained personnel for professional manufacturing, laboratory, or research purposes. Final Fitness-For-Use must be determined by and is the sole responsibility of the end-user.