PALL Medical

Total Nutrient Admixture TNA Filter

Product Code (US): TNA1

Description

The Total Nutrient Admixture TNA Filter is an air eliminating filter with low protein binding 1.2 µm membrane for up to 24 hours use in parenteral nutrition.

Configuration

TNA1: Filter device with female Luer lock inlet port with cap, 24 cm downstream microbore tubing and male Luer lock outlet port with cap (50 units per case).
This product is FDA 510(k) cleared.

Indications

It is indicated for the removal of inadvertent particulate debris and microorganisms (*Candida albicans*) from total nutrient admixtures and undiluted intravenous fat emulsions.

Contraindications

This device cannot be used to administer cellular blood products and filter any preparation that is known to be pyrogenic or contaminated with micro-organisms.

Precautions

FOLLOW INSTRUCTIONS FOR USE CAREFULLY

Materials of Construction

Refer to the Cytiva website (www.cytiva.com) for the Product Safety Data Information in the PSDI_TNA_Family Data Sheet.

Performance

1. **Fungal Removal:**
   ≥ 3 log reduction challenged with $1x10^7$ CFU/cm² EFA (Effective Filtration Area) *Candida albicans*
2. **Maximum Recommended Working Pressure:** 152 kPa (1.5 bar, approx. 22 psi, 1140 mmHg)
3. **Pumped Flow Rate Guidance (approx.):**
   - 300 mL/hour for a typical lipid containing admixture
   - 100 mL/hour for 20 % w/v lipid emulsions
4. **Infusion Pumps:** When administering lipid containing preparations, an infusion pump must be used.
5. **Effect on Lipid Droplet Distribution:** Does not adversely affect normal lipid droplet distribution.

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Specifications

Filtration Media (hydrophilic "nylon" membrane)

Pore Size	1.2 µm
Effective Filtration Area	Approx. 11 cm^2

Air Elimination Membranes (hydrophobic PTFE)

Number	2
Effective Venting Area	Approx. 0.70 cm^2 each

Filter Housing Dimensions (all approx.)

Length	7.8 cm (including port)
Width	3.6 cm
Depth	1.0 cm

Device Weight

<16 g

Hold-up Volume (including tubing)

2.6 mL

Tubing

Nominal dimensions	Microbore (0.9 mm ID/2.0 mm OD)

Not made with **Natural rubber latex**.

Non-phthalate fluid pathway

Sterility

Sterile and non-pyrogenic fluid pathway. Sterilised by ethylene oxide

Shelf Life

5 years

Quality

- All materials in the fluid pathway meet relevant sections of ISO 10993 series of standards
- Conform to ISO 8536-11
- Male and female Luer connectors tested in accordance with IOS 80369-7
- Sterilised in accordance with ISO 11135
- Designed and manufactured using quality systems approved to ISO 9001 and ISO 13485
- Manufacturing Environment: ISO 14644 Class 8

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250318.1IUS
11/2025