First Medical Source

Delivering Safe & Effective Infusion Systems

https://www.infulife.com/

Better Care for Better Life. InfuLife®

InfuLife® Elastomeric Infusion Pump

Materials, Biological Safety and Drug Stability Information

InfuLife® is a single-use, non-electronic elastomeric infusion pump manufactured by First Medical Source, LLC. A silicone reservoir delivers medication at a fixed flow rate for antibiotic therapy, chemotherapy and pain management, for patients in the hospital, at home or in alternate-site care.

Fluid-path materials

The parts of InfuLife® that contact the medication are made of medical-grade material types commonly used in elastomeric infusion pumps:

Component	Material
Elastomeric reservoir	Silicone elastomer
Pump core and luer connectors	ABS / MABS
Fill port with check valve	ASA, MABS, silicone
Extension tubing	PVC
In-line 1.2 µm filter	Acrylic, PTFE, polyethersulfone
Flow restrictor	Glass capillary in silicone tubing
Protective caps	Polypropylene

Biological safety testing

The finished, sterilized InfuLife® device was evaluated in 2024 by WuXi AppTec, an independent testing laboratory accredited under the FDA Accreditation Scheme for Conformity Assessment (ASCA). In vivo studies were performed under Good Laboratory Practice (21 CFR Part 58). InfuLife® met the requirements of every test:

Biological endpoint	Standard	Result
Cytotoxicity	ISO 10993-5	Non-cytotoxic
Sensitization	ISO 10993-10	Non-sensitizing
Irritation (intracutaneous reactivity)	ISO 10993-23	Non-irritating
Acute systemic toxicity	ISO 10993-11	No toxicity
Subchronic systemic toxicity	ISO 10993-11	No toxicity
Material-mediated pyrogenicity	USP <151>	Non-pyrogenic
Hemolysis	ASTM F756	Non-hemolytic

Drug stability information

First Medical Source publishes a drug stability reference for pharmacists, *Chemical Stability of Drugs for Use with InfuLife® Disposable Elastomeric Infusion Pumps* (PMP-1107). It compiles reported stability for more than 85 drugs from peer-reviewed studies of drug solutions in elastomeric infusion devices, standard drug-compatibility references and drug manufacturers' product information. Entries cover refrigerated, room-temperature and body-worn conditions, and studies performed in silicone-reservoir devices are identified.

Unless otherwise indicated, the cited studies were not performed in InfuLife® pumps. As with any admixture, the pharmacist determines the suitability of each preparation, storage condition and in-use period. Biological safety testing addresses the device materials; it does not measure drug stability.

Contact

To request the drug stability reference or additional product information, contact First Medical Source at support@firstmedicalsource.com.

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