

Neomycin sulfate is bacteriocidal in action being effective against gram negative organisms but not effective against Pseudomonas. It has not been found to penetrate devitalized tissue and is therefore used on clean wound surfaces to control bacterial growth. The usual concentration for topical use is XX to XX%.

Polymyxin B sulfate occurs as a powder which readily dissolves in solution. Polymyxin B is bacteriocidal for most gram negative species but has no gram positive organism or fungal activity. It is non-toxic to tissues and skin sensitivity is rare.

Bacitracin is a polypeptide bacteriostatic antibiotic active against many gram positive organisms, but not against gram negative organisms or fungi. Bacitracin is precipitated from solution by any heavy metals. It does not penetrate tissue and is not toxic when applied topically. Skin sensitivity is rare. Often combinations of bacitracin and neomycin are used to increase antibacterial properties. Nystatin, an anti-fungal, can also be added.

Table 4-1

Selected Brand Name Anti-infectives (Products, Active Ingredient, Manufacturer)

Product	Active Ingredient	Manufacturer

Source: Kalorama Information

Table 4-20
Biological Dressing Market Competitor Summary
Revenues and Market Share by Supplier
2006

Supplier	Market Share	Revenues (in millions)
Total		

Source: Kalorama Information

PRESSURE RELIEF DEVICES

Overview

Pressure relief equipment is designed to prevent pressure on burned areas of the body. Two overall concepts as such are in place for pressure relief therapy systems. The market offers either static system (non electric) or active dynamic systems (electric). Clinical research and testimonials throughout the world support both.

Static products range from overlays of foam to air or water mattresses that are inflated with a pump. Dynamic overlays are usually air mattresses with cells that expand and contract and are designed to stimulate the natural motion of the human body. Dynamic products can be low air-loss with a series of inflated cushions on an adjustable frame. The air-fluidized beds relieve pressure by blowing glass beads under a polyester type sheet. The implementation of bed rails, low electricity requirements, and pulmonary support are among the features that have been included in the vast variety of options that are now available.