

# 6A Dermatologic Line

*Your best ally for topic skin treatment*



A proven, **highly effective** combination

01

**ANTIBIOTIC  
SYNERGY**

02

**ANTI-INFLAMMA-  
TORY POWER**

Suppresses the inflammatory response of connective tissue

03

**ANTIMYCOTIC  
EFFECTIVENESS**

Proven antifungal effect on common ringworms

04

**ANTIALLERGIC  
RESPONSE**

Inhibits chemical mediators such as histamine and leukotrienes

05

**TOPIC  
ANALGESIA**

Eliminates pain from a swollen lesion caused by licking biting or scratching

06

**ANTIPRURITIC**

Prevents self-injury

**6A CREAM** is an evanescent emulsion of quick absorption and action which does not stick to skin and fur. Its water content hydrates the skin and its combination of active principles quickly resolves the injury, with immediate relief, and aesthetic healing.



IMMEDIATE  
ABSORPTION  
STAINLESS

**6A AEROSOL** adds an intense cooling effect in the area, producing instant, traceless relief.

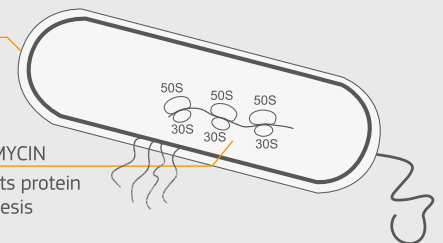


**WHY NEOMYCIN AND BACITRACIN Zn IS THE BEST FORMULA COMBINATION?**

- › Full bactericide action without resistance
- › Bacitracin Zn + neomycin sulfate = PROVEN SYNERGY

**BACITRACIN**  
Makes bacterial wall unstable

**NEOMYCIN**  
Inhibits protein synthesis



Antibiotic	Action	Spectrum	Action site	Mode of action
Bacitracin Zn	Bactericide	Gram (+)	Bacterial wall	Inhibits the production of glycan peptide, destabilizing the cell wall
Neomycin	Bactericide	Gram (-) Gram (+)	30S subunit in cytoplasm	Acts on the 30S ribosomal subunit, inhibiting protein synthesis

## SCIENTIFIC EVIDENCE

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In order to evaluate the pharmacodynamic interaction between bacitracin Zn and neomycin sulfate, both present in the formulation of Labyes 6A Cream, an in vitro study\* was conducted to assess the MIC (minimum inhibitory concentration), challenging the combination of these two antibiotics against wild strains of *Staphylococcus sp*, *Streptococcus sp*, *Pseudomona aeruginosa*, *Escherichia coli* and *Proteus sp* isolated from dogs and cats. The so-called Checkerboard laboratory method was used to evaluate this combined formulation.

An effective antimicrobial therapy relies on the triad: bacterial susceptibility, pharmacokinetic characteristics of the agent, and dosage regimen. The capability of host defensive mechanisms also influences therapy outcome.

**Bacitracin** is a polypeptide that inhibits bacterial wall synthesis and alters the cytoplasmic membrane. It is active against Gram (+) microorganisms, especially *Staphylococcus* and *Streptococcus*. With minimum absorption rarely causes allergic contact dermatitis.

**Neomycin** is an aminoglycoside that inhibits bacterial protein synthesis by acting on the 30S subunit of the bacterial ribosome. To exert this action, it must penetrate through the cell wall of the bacteria. It is highly active against Gram (-), but has less action on Gram (+). It can improve re-epithelialization of injured skin.

The synergism between the two proposed antimicrobials can be explained by the action of bacitracin Zn, which damages the cell wall of the bacteria, allowing the active uptake of neomycin.

The study concluded that Labyes' neomycin sulfate/bacitracin Zn (6A) cream has **synergistic activity** on skin and mucous membrane infections caused by sensitive *Staphylococcus spp*, *Escherichia coli*, *Pseudomonas spp*, *Streptococcus spp* and *Proteus spp*.

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\*Mestorino, N. (2014). *Evaluación de la Actividad Antimicrobiana in vitro de la combinación Neomicina/Bacitracina presente en la CREMA 6A*, elaborada por LABYES SA. Laboratorio de Estudios Farmacológicos y Toxicológicos, Facultad de Ciencias Veterinarias, Universidad Nacional de La Plata. La Plata, Buenos Aires, Argentina.

Mestorino, N. (2014). *Evaluación de la Actividad combinada de antimicrobianos in vitro: asociación Neomicina/Bacitracina*. Laboratorio de Estudios Farmacológicos y Toxicológicos, Facultad de Ciencias Veterinarias, Universidad Nacional de La Plata. La Plata, Buenos Aires, Argentina.

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## FORMULA

### 6A CREAM

Dexamethasone	0.025 g
Neomycin sulfate	0.250 g
Bacitracin Zn	50.000 UI
Micronized griseofulvin	0.180 g
Benzocaine	1 g
Excipients q.s.	100 g

### 6A AEROSOL

Dexamethasone	0.025 g
Neomycin sulfate	0.5 g
Bacitracin Zn	40.000 UI
Micronized griseofulvin	0.096 g
Lidocaine ClH	0.6 g
Excipients q.s.	100 g

## INDICATIONS

- › 6A is recommended for any infected or uninfected skin lesion in canines and felines.
- › Hot spots. Ringworms. Eczemas of known or idiopathic origin.
- › Painfull swollen itchy lesions resulting from scratching, biting o licking.
- › Aesthetic surgery.

## HOW SUPPLIED

- › **Aerosol:** 66 g / 80 ml
- › **Cream:** 15 and 30 g tubes