



# Infectious Disease Research

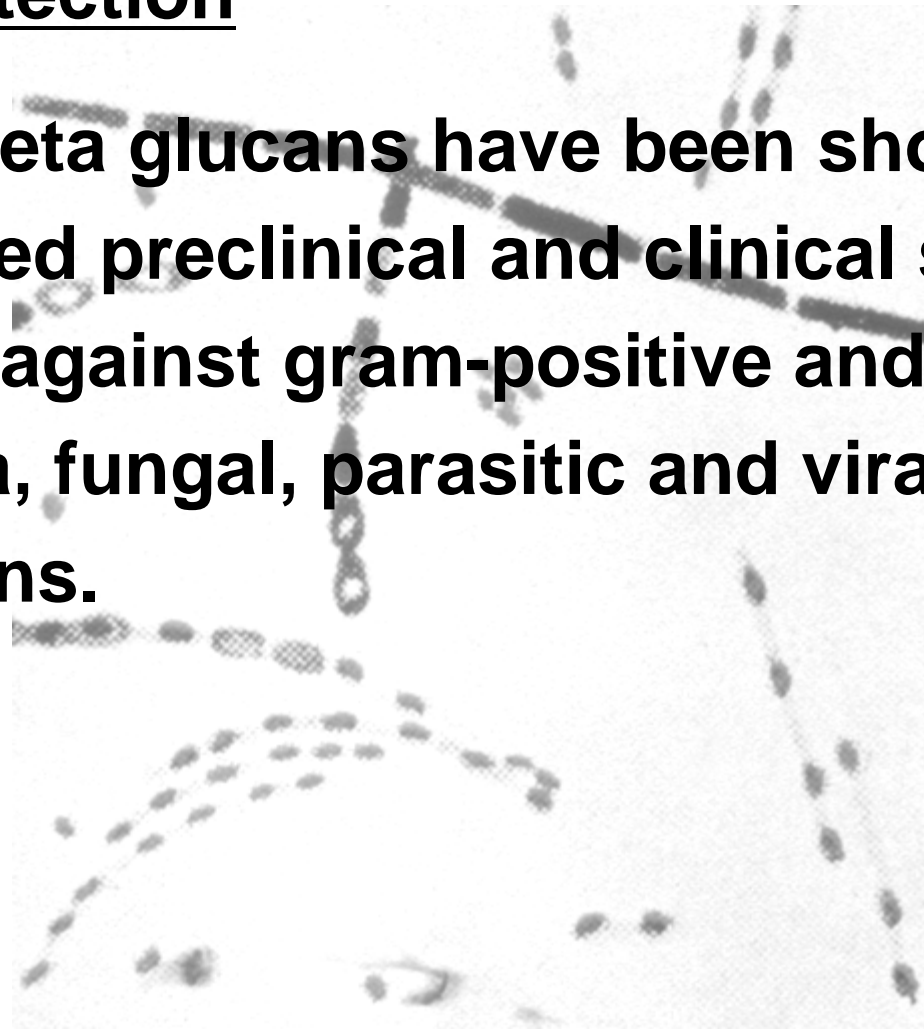
Beta 1,3/1,6 Glucan Enhances Immunity

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Statements in this presentation have not been evaluated by the Food and Drug Administration.  
These product are not intended to diagnose, treat, cure or prevent any disease.

## Broad Protection

**Yeast beta glucans have been shown in published preclinical and clinical studies to protect against gram-positive and negative bacteria, fungal, parasitic and viral infections.**

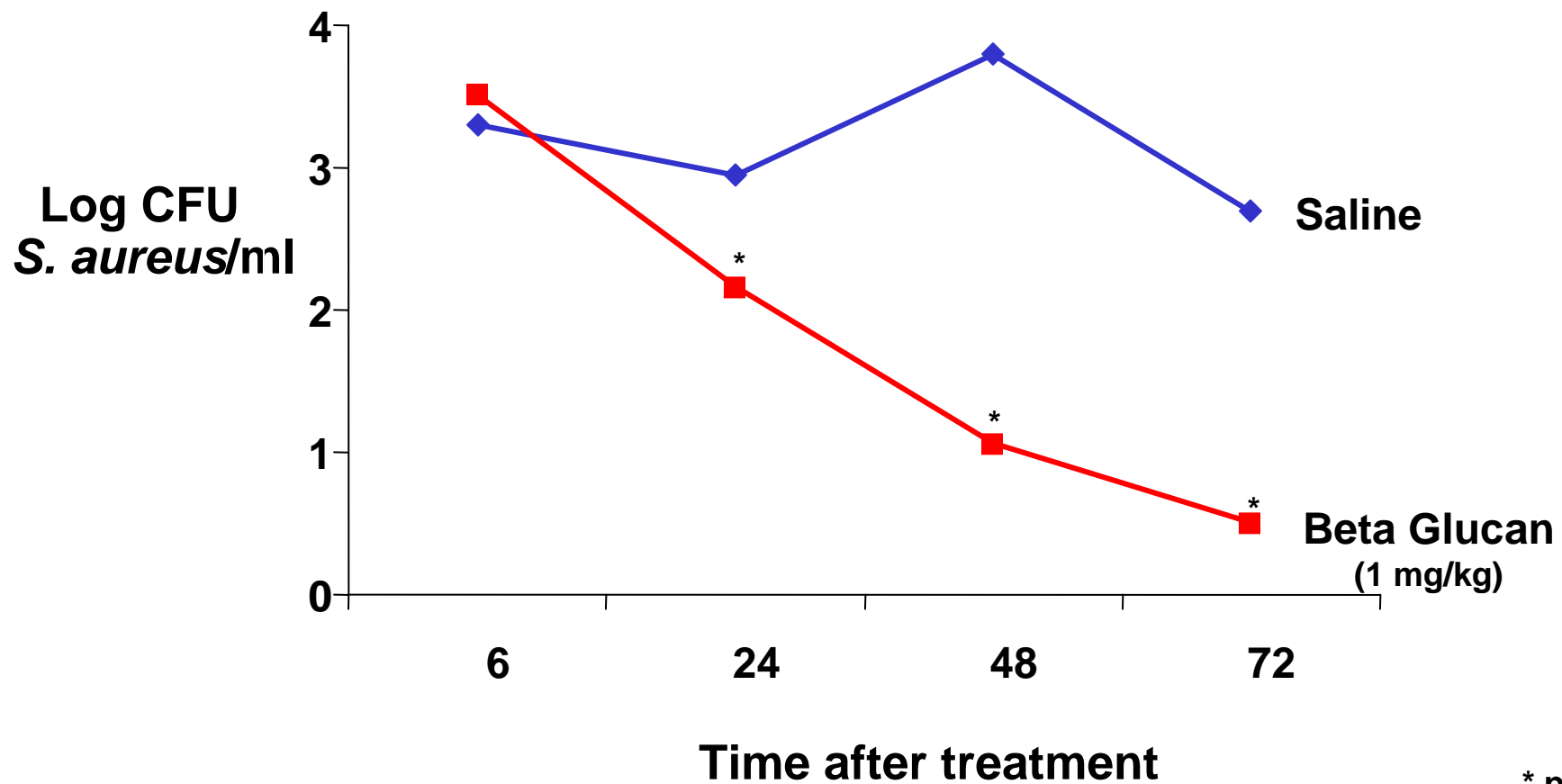


## Beta Glucan Increases Survival Against Deadly Bacteria

	% Survival		
	CONTROL	Beta Glucan (5 mg/kg)	p-value
<b><i>Escherichia coli</i></b> 1.0 X 10 <sup>8</sup> CFU I.P.	0	90	<0.01
<b><i>Staphylococcus aureus</i></b> 1.0 X 10 <sup>8</sup> CFU I.P.	0	80	<0.03

# Infectious Disease

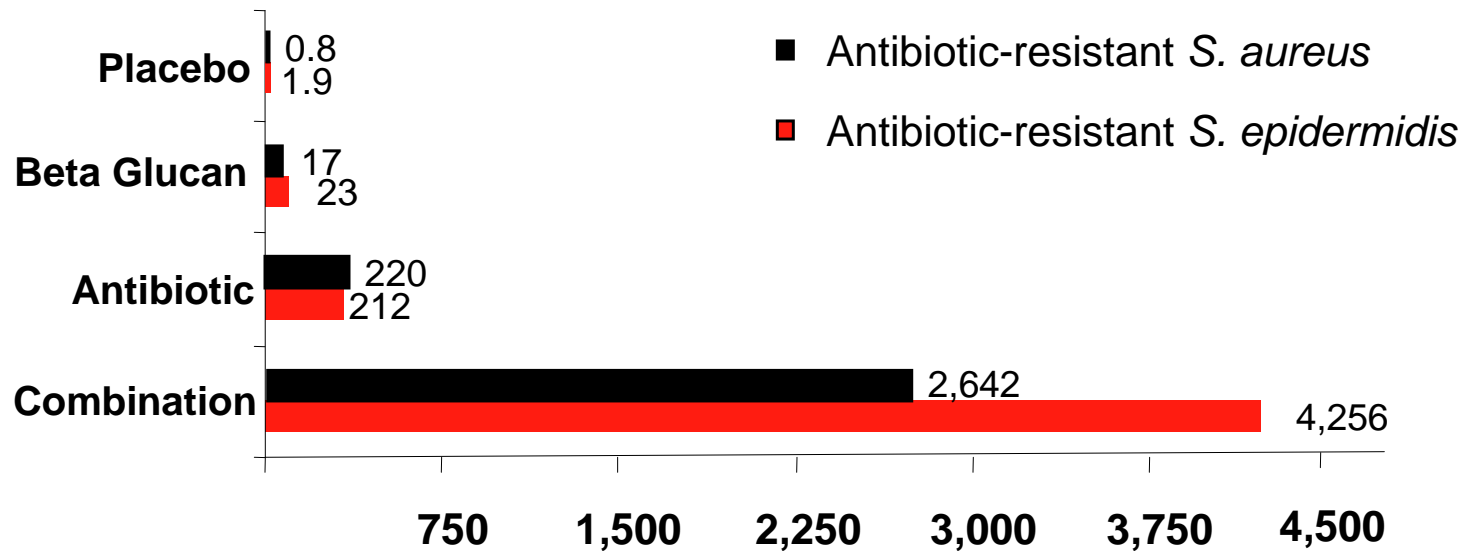
## Increased Clearance of Blood *S. aureus* in Beta Glucan Treated Rats



\*  $p < 0.05$

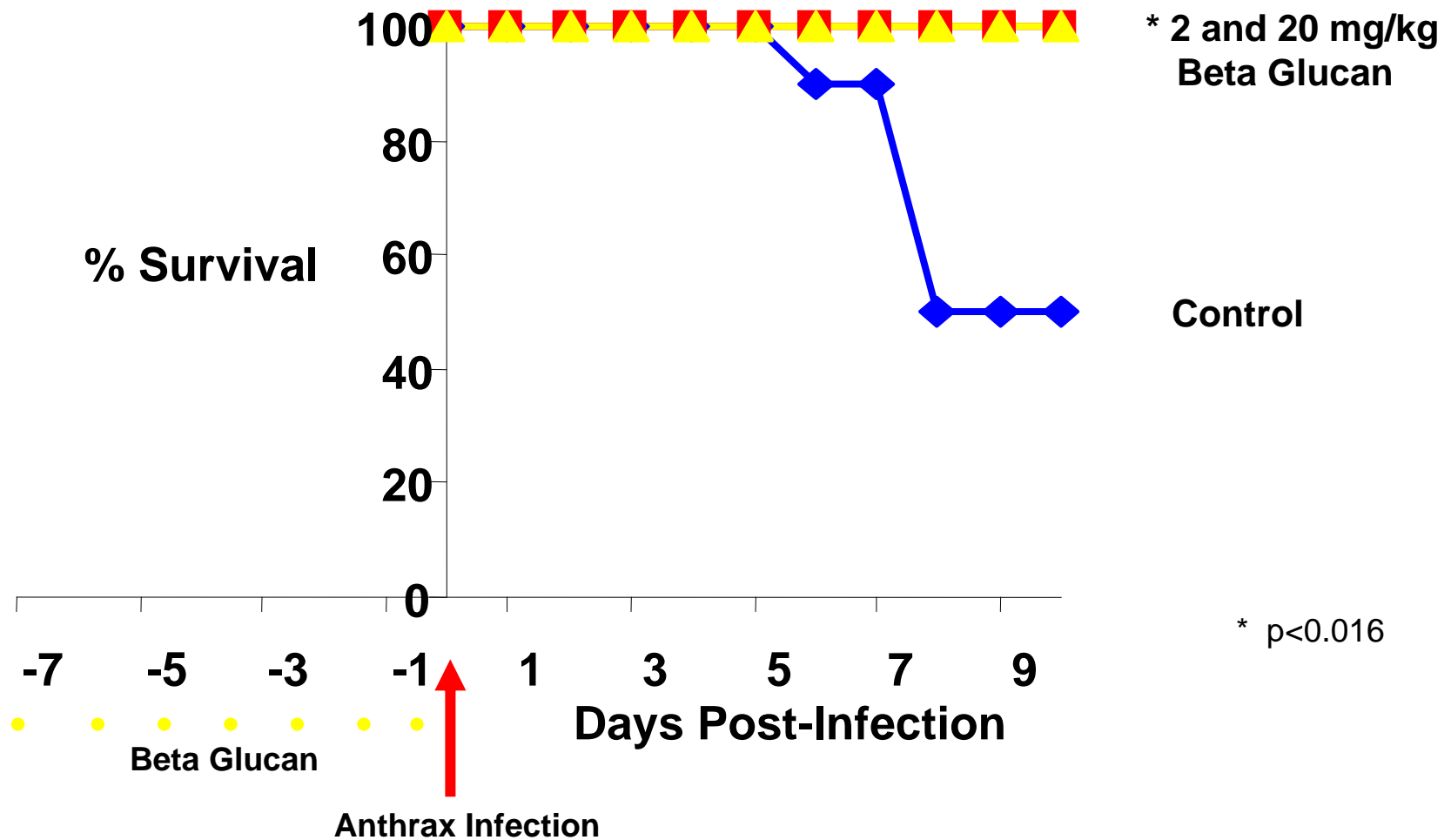
# Infectious Disease

## Synergistic with Drug Against Antibiotic-Resistant Bacterial Infections



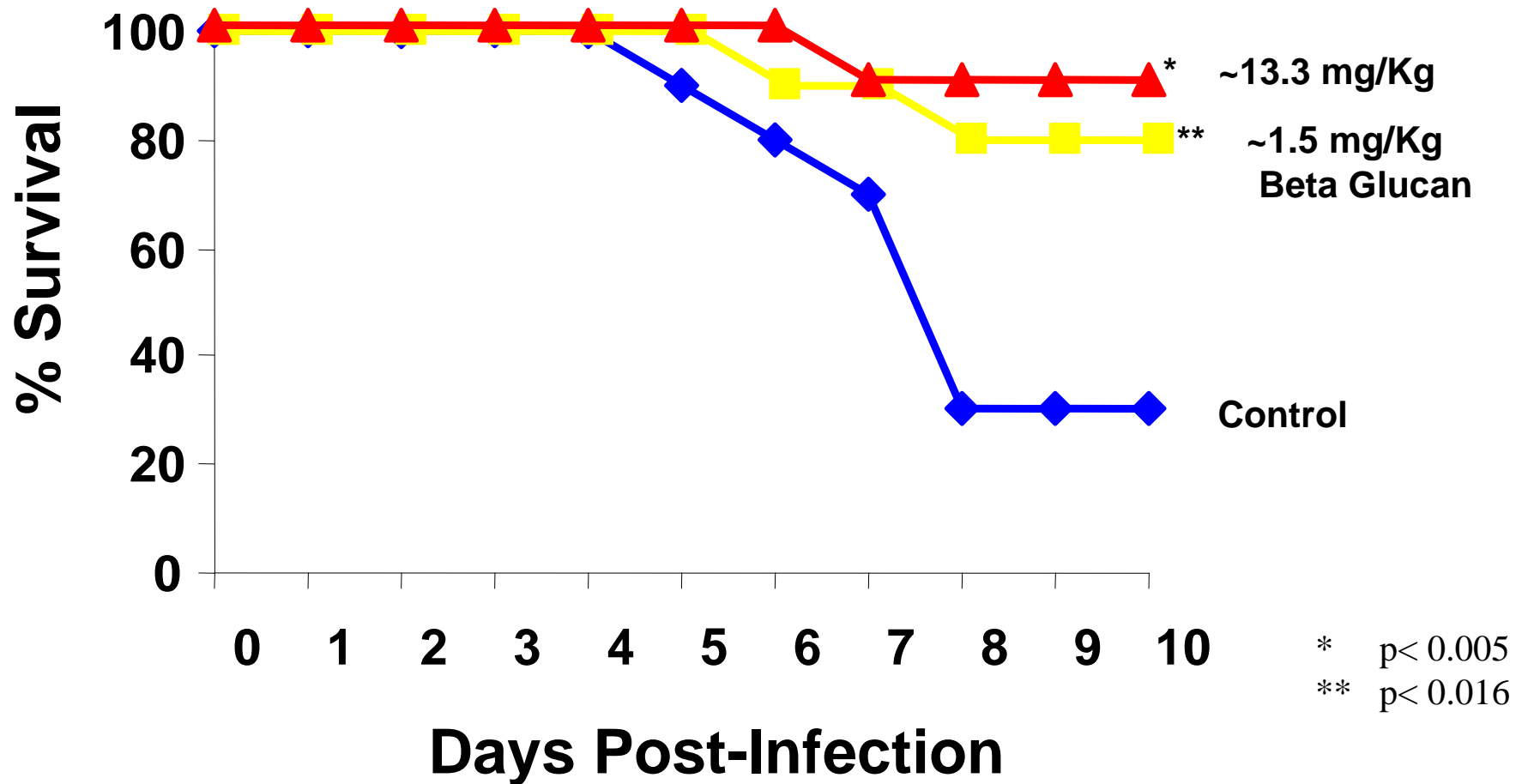
Number of Bacteria Needed to Cause an Infection

## Preventive Administration of Beta Glucan



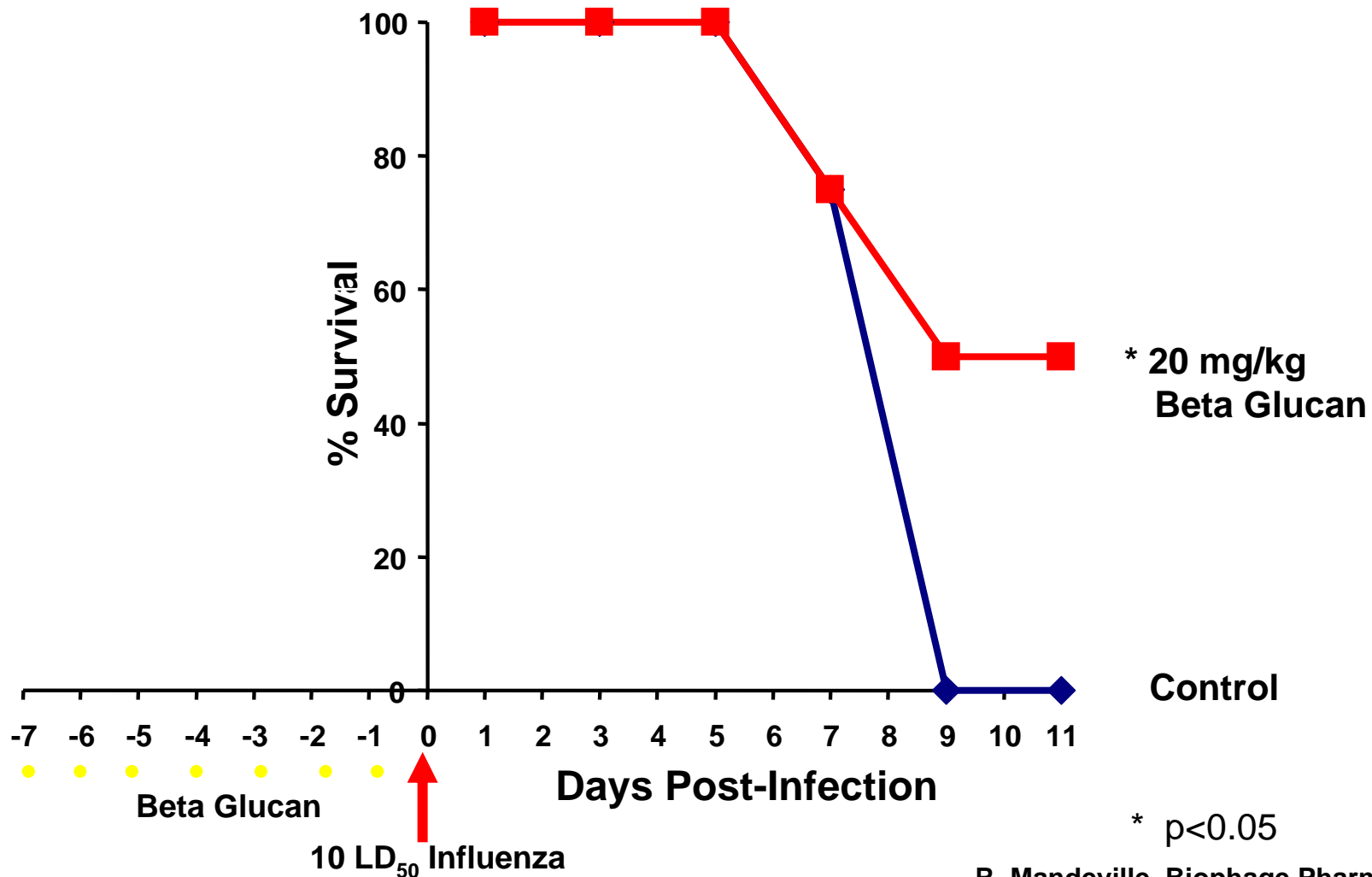
# Anthrax

## Therapeutic Administration



# Influenza

## Influenza Protective Effect of Daily Prophylactic Oral Dosing of Beta Glucan





## Beta Glucan

- Best immune product available
- Only yeast beta glucan clinically proven to support the immune system
- Numerous preclinical studies against a variety of foreign challenges
- Safe and well-tolerated



# End of Module

This concludes this portion of the presentation.