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TECHNICAL REPORT

Microbiologic Properties of Compounded Streptomycin 150mg/Vancomycin 60mg/Flucytosine 250mg Capsules ("SVF") *mixed with BASSA-GEL™ against selected pathogens was assessed and the results are conveyed here.*

Executive Summary: SVF (3 capsules) ("DRUG") mixed with BASSA-GELTM ("DRUG") was tested against the identified pathogens and the results of these tests are reported as follows. Should there be only a "blue-line" reported that means the DRUG was so effective against the pathogen that the detection limit was below the assay of the experiment.

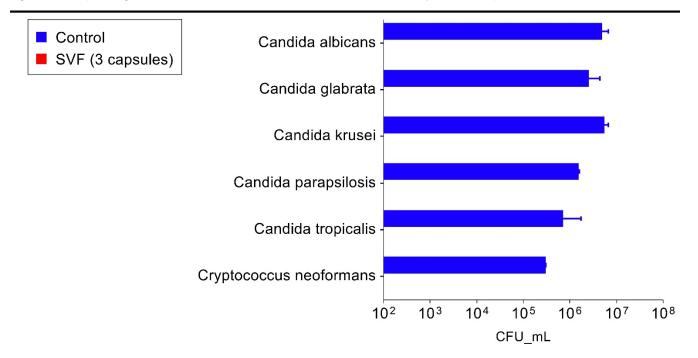
Methods overview: Methods for this laboratory study were adapted from Bearden *et al* and from FDA Docket No. FDA-1975-N-0012.^{1,2} All experiments were performed using the commercially available formulations. Reductions in bacterial counts between agents were determined.

Methods and Results:

Bacterial strains: Pathogens selected are defined in ATCC or CDC AR strains (Table 1, page 2).

Antimicrobial agents: SVF (3 capsules) mixed with BASSA-GELTM

<u>Experiment</u>: Pre-sterilized discs were saturated with 1 x10⁷⁻⁸ CFU/mL of bacterial culture, allowed to incubate for 24 hours to mimic *ex vivo* wound infection, exposed to the gel/drug solution or positive control (phosphate buffer saline, PBS), and then incubated aerobically at 37°C for 24 hours. After this time, disks were washed, diluted, and then cultured onto blood agar plates for colony forming unit (CFU/mL) counts using serial dilution spread plate technique. The results are reported below (mean log CFU/mL ± standard error). As stated above in the executive summary, should there be only a "blue-line" reported that means the DRUG was so effective against the pathogen that the detection limit was below the assay of the experiment.



<u>Interpretation</u>: SVF (3 capsules) with BASSA-GELTM was tested in a model mimicking a bandaged wound. The experiment demonstrated significant reductions in yeast species tested.



Table 1. Organisms Included in Testing

Organism	ATCC/CDC #
Candida albicans	ATCC 90028
Candida glabrata	ATCC 2001
Candida krusei	ATCC 2159
Candida parapsilosis	ATCC 22019
Candida tropicalis	AR 0345
Cryptococcus neoformans	ATCC 14116

References

- 1. Bearden DT, Allen GP, Christensen JM. Comparative in vitro activities of topical wound care products against community-associated methicillin-resistant Staphylococcus aureus. *J Antimicrob Chemother* 2008;62:769-72.
- 2. Huang DB, Okhuysen PC, Jiang ZD, DuPont HL. Enteroaggregative Escherichia coli: an emerging enteric pathogen. *Am J Gastroenterol* 2004;99:383-9.



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