Silver Rain Bacteriostatic Soap against Carbapenem-resistant Enterococcus and Escherichia

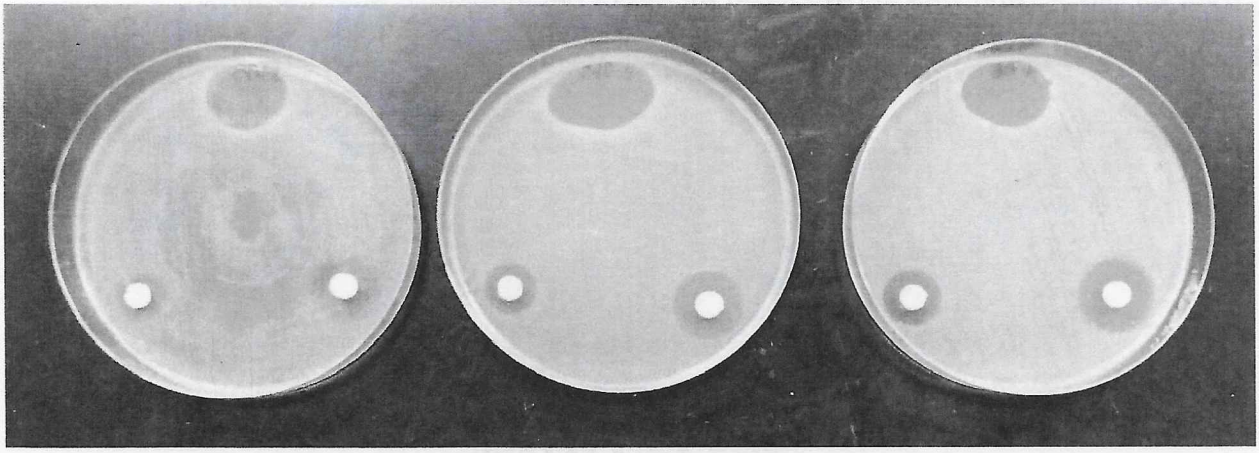
4 bacterial species were tested against Silver Rain and 2 Carbapenem class antibiotics. 3 separate strains of *Enterococcus durans* were selected for their resistance to drugs in the Carbapenem drug class.

Enterococcus durans
Enterococcus faecalis
Escherichia fergusonii
Escherichia coli

Each bacterial culture was plated and then tested against:

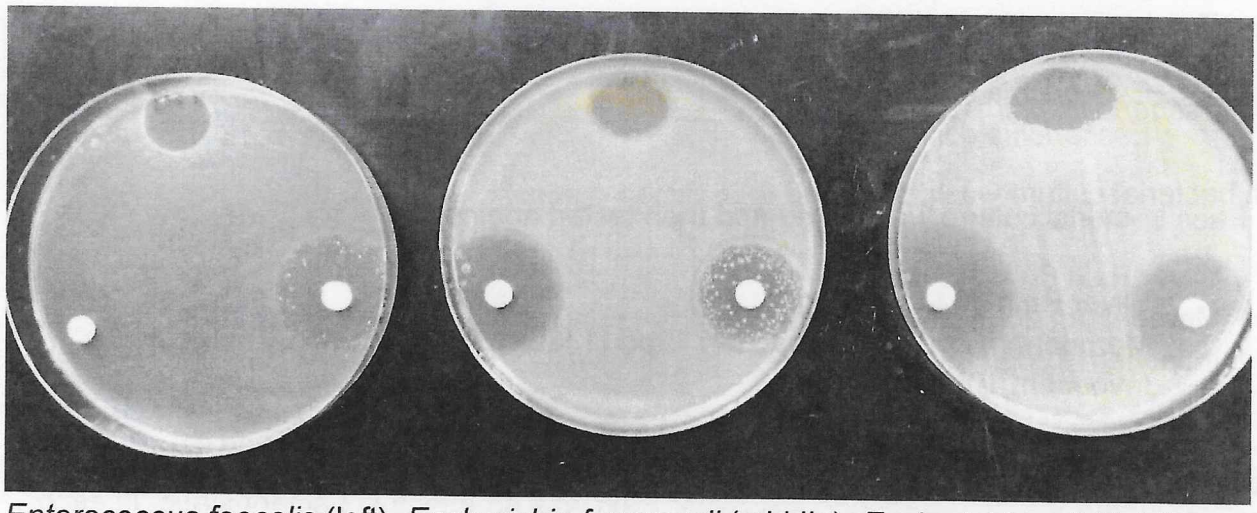
Silver Rain 60 µL (2 drops)
Meropenem 20µg Vaborbactam 10µg (1 tablet)
Imipenem 10µg (1 tablet)

The strains of *Enterococcus durans* showed resistance to both Imipenem and Meropenem Vaborbactam and still Silver Rain was an effective bacteriostatic. In each test the Silver Rain zone of inhibition diffused beyond where the agent was applied. There are no secondary or encroaching growth within the Silver Rain zone of inhibition.



Enterococcus durans, 3 separate strains.
Meropenem (bottom left), Imipenem (bottom right), Silver rain (top middle).

Enterococcus faecalis, Escherichia fergusonii, and *Escherichia coli* showed less resistance to the Carbapenem class drugs initially yet there was some secondary and encroaching growth within the zones showing a developing resistance to the antibiotics. The Silver Rain zones in these tests showed diffusion beyond where the agent was applied and no secondary or encroaching growth.



Enterococcus faecalis (left), *Escherichia fergusonii* (middle), *Escherichia coli* (right). Meropenem (bottom left), Imipenem (bottom right), Silver rain (top middle).

Over all Silver Rain was shown to be an effect bacteriostatic agent against Enterococcus and Escherichia strains.

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