Protection of live bacteria from bile acid toxicity using bile acid adsorbing resins

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Figure 1

- Buffer
- 2% BILE
- pH 3.7 ACID

Figure 2

A

- Buffer
- Bile solution
- Bile solution pre-treated with Cholestyramine

B

- Cholestyramine: - - + +
- 2% Bile: - + - +

C

- Standard drying excipient
- 10% Cholestyramine in excipient
- 5% Cholestyramine in excipient
Figure 3

Graph showing CFU/mg dried cells for different fillers and bile adsorbing resins. The x-axis represents different fillers and resins, and the y-axis represents CFU/mg dried cells. The bars indicate the mean, with error bars showing the variability. Labels include:

- Buffer
- 1% Bile
- Sucrose filler
- MCC filler
- 33% Cholestyramine 1X2 (400 mesh)
- 62% Dowex 1X2 (400 mesh)
- 43% Dowex 1X2 (400 mesh)
- 61% Dowex 50WX2 (400 mesh)

Legend:

Filler only controls
Bile adsorbing resin
Control resin