











## **Bacterial biomass**

- Per definition, inactivated cells cannot be probiotics (live microorganisms that, ....)
- But, just because they cannot be probiotics does not mean they can't have beneficial effects
- The terms 'paraprobiotics' and 'postbiotics' have been mooted for inactivated cells with a health benefit
- Inactivated cells could have significant advantages over probiotics in terms of production, formulation, shelf life, safety and dosing regimes









































