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	Issue No: 02
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NBT-751: Bioseparation & Down Stream Process Lab

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- 1. Characteristics of Bioproducts: Flocculation and conditioning of broth**
- 2. Mechanical separation: Filtration and Centrifugation**
- 3. Cell disruption.**
- 4. Membrane based separation.**
- 5. Protein precipitation and its separation: Aqueous two phase extraction, Ultra filtration and Adsorption**
- 6. Chromatography separation based on size, charge, hydrophobic interaction**
- 7. Gel analysis/ assay for dialysed product**
- 8. Product crystallization and drying**