



DOWNSTREAM  
PROCESS  
DEVELOPMENT

# LIST OF SERVICES

[www.naya-ls.com](http://www.naya-ls.com)



Based on the nature of products and their synthesis methods, at NAYA LS

## **WE PROVIDE THE FOLLOWING DSP SERVICES:**

### ▶ HARVESTING AND FILTRATION

- ▶ Clarification (centrifugation, dead-end filtration)
- ▶ Crossflow filtration (cassettes and hollow fibers)
- ▶ Cell disruption, IB isolation
- ▶ Protein extraction, protein refolding

### ▶ PRIMARY CAPTURE

- ▶ BUFFER EXCHANGE AND UP-CONCENTRATION (DIAFILTRATION BY USING DIFFERENT CUTOFF FILTERS)

### ▶ PURIFICATION (CONTAMINANT OR IMPURITY CLEARANCE)

- ▶ Resin scouting
  - Anion or cation exchange chromatography
  - Mixed mode chromatography
  - Hydrophobic interaction chromatography
  - Reversed-phase chromatography
  - Affinity chromatography
  - Desalting and/or size exclusion chromatography
- ▶ Chromatography parameters screening
- ▶ Testing of product elution in step or gradient mode
- ▶ Each step in-process control defines to recovery calculation

### ▶ BIOCONJUGATION (MOLECULE DEPENDENT)

### ▶ VIRUS INACTIVATION AND CLEARANCE

### ▶ FORMULATION

- ▶ PROCESS REPRODUCIBILITY STUDIES (E.G., FOR SCALE-UP PURPOSES AND/OR PRECLINICAL ANIMAL STUDIES, ETC.)

- ▶ SCALE-UP AND DOWN CALCULATION (FOR EXAMPLE DIAMETERS OF COLUMN AND VESSELS CAPACITY)