**Vaccine pilot plant (VPP)**

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| System design/system concept | Map: flowchart | Design: **✓**Image: **✓**Article in main menu: 🗶file: 🗶 |
| Mechanical design | FreeCAD design: **✓**Image: **✓**Article in main menu: 🗶File: 🗶 |
| PCS implementation | Programing design: **✓**Image: **✓**Article in main menu: 🗶File: 🗶 (exist in the master thesis we don’t have access on it) |
| Test specification | Table for test specification: 🗶Article in main menu: 🗶 |
| Requirements | Materials needed: bioreactor system, homogenizer, chromatography, ultrafiltration system, ultracentrifuge, disc stack centrifuge, storage tanks and PLC system GUI | Article in main menu: 🗶 |
| Mechanical realization | Not in progress yet: 🗶 |
| COST | 195 000€ |