

Process Development

Introduction

Pall has the capability to support our customers in development of separation and purification processes. Whether driving to bring new products to market or streamlining and troubleshooting existing processes, Pall Life Sciences can provide flexible solutions and high quality documentation to back it up. Pall specialists operating in the field can quickly access dedicated Pall technologists, equipment and laboratories for services ranging from simple advice to pilot investigations or full detailed research proposals.

Unit Operations for an Integrated Process

Since Pall is the largest provider of separation and purification media, hardware and both automated and disposable systems, we are uniquely positioned to quickly optimize solutions for each customer.

The technologies upon which we focus include:

- Direct flow depth and membrane filtration
- Tangential (cross) flow membrane filtration
- Dynamic membrane separations
- Membrane chromatography
- Coalescing filters
- Specialized R&D processes (e.g. novel uses of membranes for affinity based separation techniques)
- Water treatment and purification equipment

Additional to the above, and for the purpose of process integration, we have established links to a wide range of other suppliers who can provide support for implementation of complementary technologies.



Typical Services Available

Services available as individual or combined activities include:

- Membrane/module selection tests
- System design optimization tests
- Cleaning validation studies
- Analytical services
- Qualification of disposable process
- Process modelling
- Systems design
- Inspection and report
- Engineering services for vessels and pipework etc

Facilities

Pall's Scientific and Laboratory Services (SLS) is represented by thirty five laboratory facilities at strategic locations world-wide. Many of these laboratories have their own process wet test area where customer fluids or simulated products can be tested. Equipment can also be rented for trials.

This laboratory network is backed by specific centers of expertise in downstream processing, as well as having direct access to core R&D centers where more advanced customer liaison may take place.

In response to the increasing importance of biotechnology processes and products, specialized biologics laboratories have been created in the UK at Portsmouth and in the USA at Florida and New York. Capabilities include mammalian cell culture and bacterial fermentation with qualification to handle genetically modified organisms to Class 2, equipment for optimization of downstream processes including membrane chromatography, development of disposable systems and many aspects of bioanalytical support.

Time is Valuable

Pall recognises customers' increasing requirement to reduce the time to take products to market. Pall has over 50 years of innovation and development experience with proven solutions to membrane purification and separation. Whether it is direct flow filtration, tangential flow filtration, chromatography or disposable systems, Pall can deploy a range of scaleable and reproducible products for every application. This is backed with the capability to provide complete documentation for every test protocol or complete unit operation. Delegating process development to Pall technologists can substantially reduce process development time.

Charges

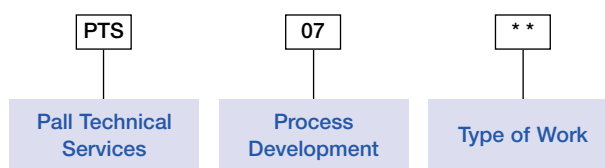
Each project is assessed individually. Wherever possible, we provide a fixed price in advance. Where this is not possible, we will give an estimate to assist you in budgeting and cost control.

The final invoice gives details on items such as labor, materials etc.

What's the Next Step ?

Simply contact your local Pall representatives. They will discuss your specific requirements with you and forward your enquiry to Pall's technical specialists.

Part Number Structure



Typical Part Number PTS07AA Process development involving membrane / module selection tests




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