

31. Title: Ranibizumab biosimilar

Inventor: Prof. Anurag S. Rathore, Department of Chemical Engineering

Keywords: Continuous processing, Biotherapeutics

Domain: Healthcare (Drugs)

Summary: The current technology relates to a novel manufacturing process for Ranibizumab biosimilar and a continuous process platform has been established utilizing various technology enablers. This continuous platform is believed to reduce the cost of the drug product making the treatment feasible and affordable.

Advantages:

- » Continuous manufacturing platform
- » Product is being generated continuously
- » Incorporation of process analytical tools (PAT) help in monitoring the process in real time
- » Models are developed to determine any deviation that can arise and is addressed in real time
- » High productivity
- » Reduced cost
- » Consistent product quality
- » Smaller facility footprint
- » Better equipment utilization

Applications: Healthcare

Scale of Development: Validation, Technology demonstration is completed

Technology Readiness Level: 4

IP Status: Know-how