



Johnson Matthey Pharma Services

Polymer Drug Conjugates

*Process and Analytical
Development, Scale-up
and Manufacturing Services
for your Polymer Drug
Conjugates (PDCs)*



25 Patton Road
Devens, MA 01434

978-784-5000

www.jmpharmaservices.com



Johnson Matthey
Pharma Services

Novel Drug Applications Using PDCs

Our highly skilled process chemists and analytical scientists possess over a decade of experience developing and scaling up processes for linking small molecule payloads to polymers in support of PDCs, ADCs, and other drug delivery applications.

We have the expertise and ability to:

- Modify and conjugate diverse types of polymers including PEGs, polyamides, polyesters, polysaccharides, and polypeptides
- Derivatize the polymers with more than one API
- Control molecular weight distribution
- Handle highly potent, cytotoxic compounds
- Take your compound all the way through to commercialization



Plant scale TFF / RO unit



High potency isolator

Manufacturing Capabilities

Highly potent compounds
including SafeBridge® Category 4

Controlled Substances Schedule I-V

Scale-up from development lab to pilot plant

Proven ability to control molecular weight cut-off

Chromatography up to plant scale

Tangential flow filtration (TFF) /
Reverse osmosis (RO) up to plant scale

GPC/SEC for analysis and
determination of molecular weight

MALS detection

Lyophilization

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Polymer Drug Conjugation Services Overview

You can trust Johnson Matthey as your CMO/CRO partner for development and production services throughout the lifecycle of your PDC.

Chemical Process Development

- Ready to meet challenges associated with payload distribution, agglomeration, molecular weight distribution and purification



Lab scale TFF / RO unit

Analytical Method Development and Validation

- GPC/SEC for molecular weight determination
- MALS detection

Large Scale cGMP Manufacturing

- High potency capabilities
- Large scale chromatography
- Tangential flow filtration (TFF)
- Reverse osmosis (RO)

Solid Form Screening

- Crystal Engineering of PDCs to improve batch-to-batch consistency
- Enhancement of physicochemical characteristics (e.g. particle size distribution, flow properties)
- Improvement to filtration and drying times



100 cm diameter column

The JMPS Advantage

- Our Polymer Drug Conjugate services can support the full lifecycle of your product from preclinical to commercial supply
- Our facility is FDA inspected and regulatory filings are fully supported
- We have the ability to handle highly potent compounds including SafeBridge® Category 4, and Controlled Substances Schedule I-V
- We provide excellent project management and regular communication with our clients

To learn more, contact us at:

978-784-5000

www.jmpharmaservices.com

Superior Project Management

Over the last 10 years, JMPS has developed substantial expertise and proficiency in polymer drug conjugate chemistry. Your team of accomplished scientists will effectively plan and execute the development and scale-up of your PDC throughout its lifecycle.

Our goal is simple: to provide you with customized solutions that enable you to reach your next milestone successfully.



At JMPS, we provide you with extensive chemistry services and unique technologies that span every phase of the drug development process, from discovery to commercial API production.



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