



**Penn Pharmaceutical Services**  
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## ANALYTICAL DEVELOPMENT



# PENN PHARMACEUTICAL SERVICES

WITH YOU EVERY STEP OF THE WAY

CMC CONSULTANCY  
FORMULATION DEVELOPMENT  
ANALYTICAL DEVELOPMENT  
CLINICAL TRIAL SUPPLY  
CONTRACT MANUFACTURING  
QP RELEASE SERVICES



With over 25 years of experience and a highly qualified Analytical Development team, Penn can deliver all your requirements for analytical support and data interpretation. We support a wide range of clients from small companies with specific development needs to multi-nationals requiring turnkey

stability programmes for commercial batches. Our successful MHRA and FDA inspection record means we can give our clients reputable analytical support for a variety of product development programmes whether at clinical or commercial stage.



# ANALYTICAL DEVELOPMENT

## PEOPLE

You will have access to a senior analyst with considerable experience of working within and on behalf of the pharmaceutical industry. Their supporting team of analysts are graduate qualified and dedicated to specific clients and accounts. Penn understands the need for rapid turnaround of results to assist our client's decision making process and ensures our clients have access to the appropriate personnel.

And if you require a resource 'on tap' at all times we can arrange that too.

## CORE SERVICES

Working to ICH standards, whilst conforming to cGMP and other relevant regulatory standards, we offer you an extensive Analytical Development service which includes:

- *Expert documentation for regulatory submissions worldwide*
- *Accurate analytical data to support development programmes*
- *Supply of analytical method transfer protocols*
- *Development and validation of analytical methodologies*
- *A wide variety of techniques including HPLC, GC and LCMS*
- *Cytotoxic and teratogenic compound testing*
- *Strategies for testing of packaging configurations*
- *Full ICH stability testing parameters*

## ACHIEVEMENTS

Penn Analytical Development has an excellent history of achieving practical, effective and compliant analytical solutions to challenging situations. This ability comes from a blend of very experienced analytical chemists supplemented by our ability to attract and retain high calibre graduates from the science schools of UK universities.

Molecules with little or no chromophores have been successfully analysed with routine UV HPLC by utilising some advanced column selection and derivitisation techniques. This means that the end solution is more practical for a routine QC environment at a large scale contract manufacturing organisation. Other options would make the analytical solution more costly for the customer.

## QUALITY

Penn has an excellent cGMP inspection record with MHRA and FDA and is authorised for both drug materials and medical devices.

Penn also has a mature and stable Quality Management System which is tested by more than 50 customer audits each year in addition to FDA and MHRA scrutiny. Holding all relevant MHRA licenses, Penn is ideally equipped to provide compliant services in Formulation Development, Clinical Trial Supply, Contract Manufacture and Analytical Development. In addition Penn's large and experienced QP team provides a diverse knowledge and experience of a complete range of pharmaceutical dosage forms; providing guidance to customers on everything from API to Sterile injectables. Penn has an effective and recognised environmental management programme ensuring that environmentally conscious customers are assured of a thoughtful and sensitive solution.

## THE COMPLETE SERVICE

At Penn Pharmaceuticals we offer you a tailored service that differentiates us from our competitors. If you would like to add further value to your business, choose another of our services:

- CMC CONSULTANCY
- FORMULATION DEVELOPMENT
- CLINICAL TRIAL SUPPLY
- CONTRACT MANUFACTURING
- QP RELEASE SERVICES

## YOUR NEXT STEP

No matter how large or small your needs, call **+44 (0) 1495 713 607**, email [enquiries@pennpharm.co.uk](mailto:enquiries@pennpharm.co.uk) or visit [www.pennpharm.co.uk](http://www.pennpharm.co.uk) today to discuss your exact requirements.

**PENN – WITH YOU EVERY STEP OF THE WAY**