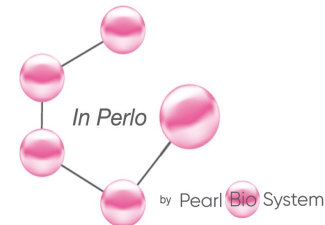
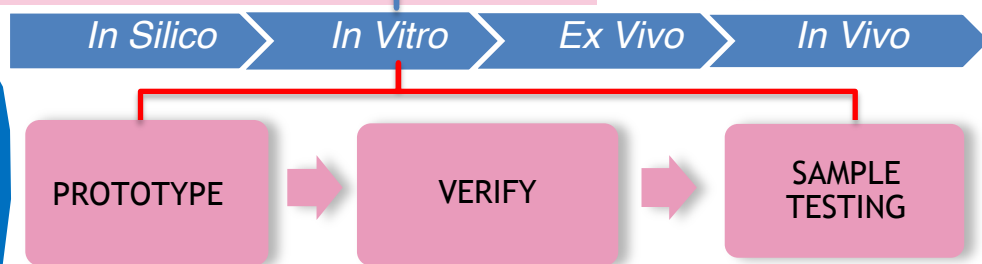


LEARN MORE ABOUT YOUR EARLY PHASE MODEL WITH ONLY 1 MG OF YOUR DRUG IN OUR *IN PERLO* MODEL



Custom Assay Development Services



Custom Assay Development Workflow, Powered by PBioS Technology

Our Advantage

Pearl BioSystem pioneered a rapid and accurate method for screening chemical libraries in liquid pearls (biopearls), an innovative approach equivalent to xenograft experiments in nude mice, designed by experts to achieve the highest-sensitivity and highest-precision. Our Technology based on synthetic pearls, allows very rapid analysis of drugs potentially identified as promising, and to validate them before a clinical trial phase, in complete operational safety.

Pearl BioSystem scientists are highly experienced to develop and optimize custom assays to meet customer specific needs and reach the highest level of performance in focused areas viz. libraries of promising drugs. Our custom assay development services can produce both Discovery and Verified Pearl's assay. We adhere to the utmost quality standards in development and manufacturing that provide solutions designed to answer customer specific research needs.

Our Solutions

Pearl BioSystem scientists will partner with you to develop your project requirements and assay criteria. Your target analyte may be proprietary or from a commercially available source, and you may select from a number of development parameters to customize your assay to your specific needs. You will receive incremental progress updates throughout the project and a final development report with your completed Discovery or Verified assay conditions. You may also choose to have Pearl BioSystem scientists perform testing on your samples using either a prototyped or fully verified and manufactured assay.

Custom Solutions	Description	Benefit
Discovery Assay Development	<ul style="list-style-type: none"> Determine basic assay conditions Estimate EC₅₀ on 5 points 	<ul style="list-style-type: none"> Rapid turn around time Ideal for discovery and proof-of-concept testing
Verified Assay Development	<ul style="list-style-type: none"> Optimize final assay conditions Establish required sample volume Verify assay performance 	<ul style="list-style-type: none"> Receive a fully optimized assay, delivered by expert Pearl BioSystem scientists Assay developed to your specifications in a specific phenotype and with demonstrated functionality

Translational Support from the PBioS Model to your Animal Model

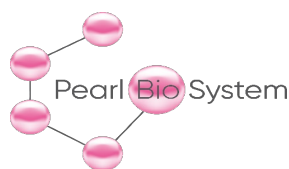
Part Number	Product name	Translational Service Details
PBS-TS-01	Translational Support after a Custom Assay Development phase	How to chose the right animal mouse model after PBS experiment (includes Bibliography- DOE - Initial report) set-up by PBioS C.S.O.
PBS-TS-02	Translational Support during your Animal Model Phase	Debriefing of your first animal results and advices to success in the parallel phase between PBioS model and your animal model
PBS-TS-03	Translational Support during your next round of molecules	Based on the experience acquired during PBS-TS-01 and 02 module, prepare the next round of new Custom Assay Development Phase (50% refundable on the next new PO)

Related Product and Services

Contact us today for developing some specific test in parallel of your animal model to help you jump-start your assay development project!

Custom Assay Development Program with only 1 mg of your drug

Assay development module to design an assay to use PBioS technology per a cell line not in the PBS catalog (if Multiple cell line, multiply each module per number of cell lines required)		
Part Number	Product Name	Service Details
PBS-0022	Assay Development-Project Initiation	Set-up Fees including 3 TC's minimum to do Pre Qualification, DoE, Work Plan - Contract - CDA - MTA set-up, acquisition of required materials & reagents plan (extra cost possible)
PBS-0024-00	Assay Development-Feasibility under current PBS methodology to a new cellular phenotype	Feasibility Basic assay configuration determination NO GO STEP before engaging PBS-0025-00 Various concentration & incubation time of the pearls with the new cellular phenotype providing by the customer : preliminary report included
PBS-0025-00	Assay Development-Prototyping a PBS Assay kit to a cell line defined by customer (size only as key parameter) (more parameters please see below)	Prototyping includes establishing EC 50 (1 nM - 1 μ M) on 5 points determining on one new cell phenotype - n=3 experiments - $\Delta t = 72$ hours per experiment / Each « n » experiment every other day
Parameters option per cellular phenotype (P(i))		
PBS-0031-00	Assay Development-Verification option: Z' factor determination for cellular concentration if Z' provided by PBS in module PBS-0025-00 didn't fit to the final expectations (concentration of cells/pearl offered in PBS protocol)	Cellular concentration determination in optimized conditions (at the wish of the customer if initial results will not correspond to final expectations)
PBS-0042-00	Assay Development-Verification option apoptosis	Apoptosis Determination in optimized conditions - Annexin V/PI labelling
PBS-0043-00	Assay Development-Verification option mitochondria	Mitochondria Determination in optimized conditions - Mitosox
Robustness per cellular phenotype (P(i)) if n=3 not sufficient		
PBS-0034-00	Assay Development-Verification option: Inter-assay precision	Determination of Inter-assay Precision in optimized conditions - if n=3 not sufficient, possibility to go to n=7
PBS-0037-00	Assay Development-Prototype Sample Testing in Duplicate	Prototype Assay - Sample Testing in duplicate to prepare a Sample Testing phase after the Full development (required PBS-0025-01 & 0042-00 & 0043-00)
Multi-Drugs interaction testing option per cellular phenotype (P(i))		
PBS-0035-02	Assay Development-Verification option: Multi Drug Interaction testing (2 drugs)	Determination of Drug Interaction / Interference in optimized conditions for 2 drugs
PBS-0035-03	Assay Development-Verification option: Multi Drug Interaction testing (3 drugs)	Determination of Drug Interaction / Interference in optimized conditions for 3 drugs
Design of a final proprietary PBS kit evaluated after Assay Development		
PBS-0039-00	Assay Development- Pearls BioSystem Kit sample testing design and fees evaluation for Sample Testing Multi Drug and Multi Cell Lines	Assay Development-Sample testing in duplicate - Validate all conditions defined in PBS-0025-00 - DMSO dilution - Z' - EC50
Final report fees		
PBS-0040-00	Assay Development - Final Report	Assay Development - Completion of summary final report - Data interpretation and validation per C.S.O.
Once this Assay Development Phase will be done, possibility to access to do some Sample Testing by adding some drugs at a lower cost to this proprietary assay (please consult us)		



**Pearl BioSystem technology:
a boost for your preclinical assays**