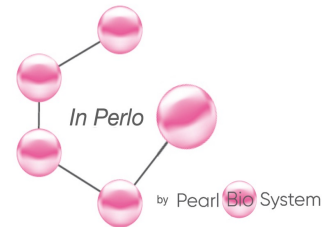
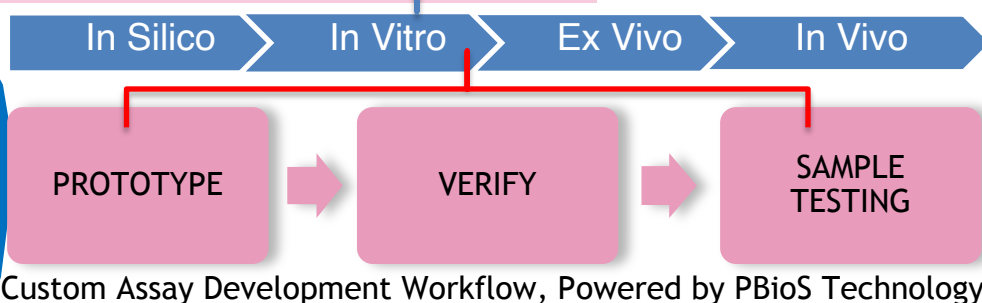


LEARN MORE ABOUT YOUR DERMO-COSMETO & COSMETO EARLY PHASE MODEL WITH ONLY 1 MG IN OUR IN PERLO MODEL



Custom Assay Development Services



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 ingredients 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 ingredients. 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.

Our Cell Lines

- Keratynocytes
- Melanocytes
- Fibroblasts

Our Application

- Anti-Inflammation
 - Anti-Aging
 - Sebogenesis
 - Pigmentation
 - Wound healing
 - Biofilm co-culture
- with possible recovery of
- proteome
 - secretome
 - fixed cells

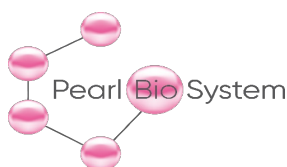
Custom Solutions	Description	Benefit
Discovery Assay Development	<ul style="list-style-type: none"> • Determine basic assay conditions • Estimate EC₅₀ on 5 points 	<ul style="list-style-type: none"> • Rapid turn around time • Ideal for discovery and proof-of-concept testing
Verified Assay Development	<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

Related Product and Services

Contact us today for developing some specific test in parallel of your 2D model to help you jump-start your assay development project!

Custom Assay Development Program with only 1 mg of your ingredient

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-0025-01	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 µM) on 5 points determining on one new cell phenotype - n=3 experiments - Δt = 72 hours per experiment / Each « n » experiment every other day
Parameters option per cellular phenotype (P(i))		
PBS-0036-Adev-Cosmeto-Oxydative Stress	Assay Development-Oxidative Stress (way chosen by customer)	Various way of stress chosen by customer (H2O2, UV B-A-C per irradiator)
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 integrity	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-ingredients interaction testing option per cellular phenotype (P(i))		
PBS-0035-02	Assay Development-Verification option: Multi ingredients Interaction testing (2 ingredients)	Determination of ingredients Interaction / Interference in optimized conditions for 2 ingredients
PBS-0035-03	Assay Development-Verification option: Multi ingredients Interaction testing (3 ingredients)	Determination of ingredients Interaction / Interference in optimized conditions for 3 ingredients
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 ingredients and Multi Cell Lines	Assay Development-Sample testing in duplicate - Validate all conditions defined in PBS-0025-00 - DMSO dilution - Z' - EC50 (required PBS-0025-01 & 0037-00)
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 ingredients at a lower cost to this proprietary assay (please consult us)		



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