

QUICK SCREEN PROJECTS



You provide the feedstock and target parameters and ProMetic BioSciences Ltd (PBL) will identify the most suitable adsorbent and optimal conditions specifically for your application -

- STEP 1 - RAPID SCREENING
- STEP 2 - VERIFICATION CHROMATOGRAPHY
- STEP 3 - HIGH THROUGHPUT PROCESS OPTIMIZATION
- DELIVERABLES - FINAL REPORT & SAMPLE OF LEAD CANDIDATE

OUR EXPERTISE

With dedicated project managers working alongside scientific experts within the fields of assay development, high throughput screening and downstream processing, PBL's Quick Screen service enables the rapid identification of a chromatography adsorbent specific to your target protein. You provide the feedstock and process parameters and PBL will identify the most suitable PBL adsorbent and optimal conditions specifically for your application:

- **STEP 1** - Rapid screening of PBL's range of existing chromatography adsorbents in PuraPlate™ format;
- **STEP 2** - Verification of lead candidates identified from library screening performed using packed columns and automated chromatography workstations;
- **STEP 3** - High throughput process optimization of chromatography parameters and buffers.

Once a lead candidate and optimum chromatography conditions have been identified, PBL will provide a comprehensive report describing the adsorbent(s) identified and optimized conditions for use. We will also provide a sample of the selected adsorbent.



OUR TECHNOLOGY

- SYNTHETIC MIMETIC LIGANDS™
- EXTENSIVE PRODUCT RANGE
- PURABEAD® (P6XL & P6HF) BASE MATRICES
- ROBUST, STABLE & LONG LIFE ADSORBENTS
- SANITIZABLE WITH SODIUM HYDROXIDE
- COMPREHENSIVE REGULATORY SUPPORT FILES
- MULTIPLE END USERS IN THE BIOPHARMACEUTICAL INDUSTRY
- MANUFACTURED WITHIN ISO 9001 QUALITY MANAGEMENT SYSTEM
- PRODUCTS AVAILABLE AS ADSORBENT SLURRY, PRE-PACKED COLUMNS & PURAPLATE™

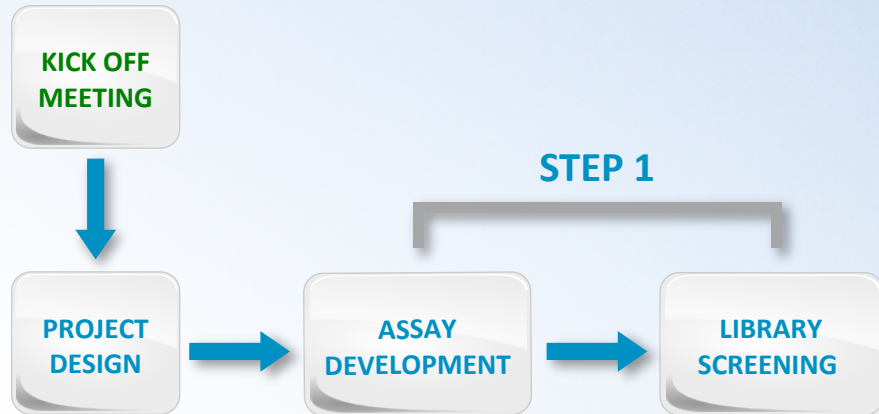


QUICK SCREEN PROJECTS

ASSAY DEVELOPMENT



LIBRARY SCREENING



PROJECT COMPONENTS

STEP 1 - ASSAY DEVELOPMENT

- Development of SDS-PAGE & total protein assays (included as standard) for high throughput sample analysis during library screening
- Additional assays can be developed if required such as ELISA, activity assays, HPLC & GPC as well as the option to transfer your own custom developed assays specific for your target protein. However, these assays are not included as standard and will potentially increase the project timelines/cost

STEP 1 - LIBRARY SCREENING

- Existing Products Library - containing PBL's range of affinity chromatography adsorbents
- Evaluation performed in PuraPlate™ 96 column block format
- Non-bound, wash, elution and clean-in-place (CIP) applications

PBL's EXISTING PRODUCTS INCLUDE:

- Mimetic Red® 2 and 3 A6XL, Mimetic Orange® 1, 2 and 3 A6XL, Mimetic Yellow® 1 and 2 A6XL, Mimetic Green® 1 A6XL
- Mimetic Blue® 1 P6XL, AP A6XL, SA P6XL, SA HL P6XL
- MAbsorbent® A1P, A2P A2P LL and A2P HF
- Fabsorbent™ F1P HF
- Aminophenylboronate A6XL, A6XL LL and P6XL
- Butyl, Decyl, Hexyl, Octyl and Phenyl A6XL
- p-Aminobenzamidine A6XL

NEXT STEPS

Any of the PBL existing products identified during the Quick Screen Project can be supplied in a variety of formats for ease of use. All ongoing supply and technical support is assured with a formal manufacturing and supply agreement if required.

- **BULK ADSORBENT SLURRY -**

For column packing, from bench scale (25 mL - 1000 mL) to process scale (single batches of adsorbent up to 275 L);

- **PURAPLATE™ -**

96-column plate for rapid screening and purification method development (0.25 mL column volume);

- **PRE-PACKED COLUMNS (PBL)-**

For attachment to chromatography workstations (1 mL column volume);

- **ATOLL COLUMNS-**

PBL products are also available in Atoll MediaScout® RoboColumn or MiniChrom columns to provide a platform for rapid process optimization.

ADSORBENT SLURRY



PURAPLATE™



PRE-PACKED COLUMNS



LIGAND DISCOVERY PROJECTS

If none of the adsorbents evaluated during the Quick Screen Project completely fulfil your target specifications, PBL also offers the option to custom design your own bespoke chromatography adsorbent specific for your target protein and process parameters. Ligand Discovery Projects are flexible and cost effective. The projects include a number of phases in order to provide you with a fully validated product:

- **LIGAND DISCOVERY -**

Ligand design, library synthesis, assay development, library screening (including an extensive range of diverse novel ligand libraries or designed focused libraries), scale-up synthesis and verification chromatography

- **ADSORBENT DEVELOPMENT**

- **CHROMATOGRAPHY DEVELOPMENT**

- **TECH TRANSFER & PROCESS OPTIMIZATION**

- **FULL REGULATORY SUPPORT PACKAGE**



CRITERIA	ACHIEVED
Purity (selectivity)	✓
Capacity	✓
Recovery	✓
Clean-in-Place	✓
Binding & elution conditions	✓
Adsorbent scale-up	✓
Stability	✓
Ligand loss	✓
Safety	✓
DMF	✓

GLOBAL SUPPORT

With sales and support offices in North America and Europe, R&D facilities in Cambridge, UK and manufacturing facilities located on the Isle of Man, British Isles and in Joliette, QC, Canada.....



.....we are able to meet your needs and support your application wherever you are

CONTACT US

SALES & TECHNICAL SUPPORT

Please do not hesitate to contact us for any further information on any aspect of our Quick Screen Projects – let us identify a chromatography adsorbent that meets your requirements today.

Also, let us know if you would like any other information in relation to other PBL Products & Services or whether you would like us to organize any in-house training sessions or seminars in your area.

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