



BioPurification Quarterly™

A Newsletter by ProMetic BioSciences
Q1 2010

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Greetings!

Welcome to our first BioPurification Quarterly™ newsletter of 2010! We hope that, by reading this newsletter, you will be better informed of what's new at ProMetic BioSciences Ltd ("PBL"). In each newsletter you'll find information on:

- New Products
- PBL Press Releases
- Special Offers
- Upcoming Events
- New Applications

Thanks again and we hope you enjoy the newsletter!

[Click here to forward this newsletter to a friend or colleague](#)

→ SPECIAL OFFER - Free Samples of Aminophenylboronate Agarose 6XL Low Ligand Density Available

Aminophenylboronate Agarose 6XL Low Ligand Density adsorbent has been optimised to provide maximal resolution of glycosylated proteins from their non-glycosylated counterparts (e.g. glycosylated haemoglobin from normal haemoglobin). This feature enables the use of this product for high-resolution separation and analytical applications.



Order your free 25ml sample for evaluation now while stocks last * from the Special Offers section of our website shop at: www.prometicbiosciences.com/shop/special-offers

Since the successful launch of our dedicated new ProMetic BioSciences Ltd's (PBL) website earlier this year, the number of customers taking advantage of our secure on-line shopping facility (inc. American Express®) has continued to grow beyond expectation. The on-line Shop service allows our customers to search and access PBL's comprehensive range of standard off-the-

[Endotoxin Removal](#)

[Glycoprotein Removal](#)

[Pathogen Reduction](#)

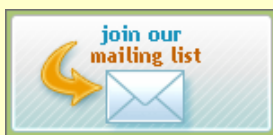
[Nucleic Acid Purification](#)

[Custom Adsorbent
Development](#)

[Prion Removal and
Detection Technologies](#)

[PBL Online Shop](#)

Join our mailing list to be notified of special offers from ProMetic BioSciences Ltd!



Upcoming Events

**BioProcess International
European Conference
and Exhibition**
Date: May 19-20
Venue: Reed Messe Wien,
Vienna, Austria

**The 14th Recovery of
Biological Conference**
Date: August 1-6
Venue: The Resort at
Squaw Creek in Lake
Tahoe, California

**BioProcess International
Conference and
Exhibition**

shelf adsorbents in a more simple, timely and cost-efficient manner.

To access other products in our on-line shopping facility, please visit us at:

www.prometicbiosciences.com/shop/

We also invite you to visit the entire PBL website to learn more about how PBL's existing products can serve the needs of your development application, or indeed, existing manufacturing process - in the Applications & Products section. From here, quickly link to the appropriate product range in the Shop section. For support, follow links, or scroll, to download the relevant supporting technical documentation from our Literature section - a comprehensive scientific library (which catalogs Product Brochures; Application Notes; User Manuals; MSDS; numerous scientific publications and references - as well as previous editions of this quarterly newsletter!).

[Click here to learn more about PBL](#)

[Click here to take advantage of this Special Offer](#)

A grey rectangular button with a white envelope icon on the left and the text "Send to a Colleague" in a white, sans-serif font.

**Please note this offer is only available while stocks last and on a per customer basis.*

Novozymes and ProMetic Enter into Alliance for Purification of Albumin-Fusion Proteins

In a very exciting development, ProMetic and Novozymes, on February 2nd announced that they have entered into a strategic alliance regarding proprietary albumin

purification technology based upon a synthetic-ligand affinity adsorbent developed by PBL. The purification technology has been designed for the rapid and cost-effective development of Novozymes' albufuse® albumin-fusion molecules.



Under the terms of the co-marketing alliance the companies will jointly promote the use of a new synthetic-ligand affinity adsorbent, marketed under the trade-name AlbuPure®, as a platform approach for the purification of albumin and albumin-fusion proteins. ProMetic will be the exclusive manufacturer and supplier of AlbuPure®, however both parties will retain ownership of their respective technologies and both Novozymes and ProMetic will have the right to market AlbuPure®.

Date: September 20-24
Venue: Rhode Island
Convention Center,
Providence Rhode Island

Are Glycoprotein Impurities a Problem in Your Process?



Aminophenylboronate P6XL is a synthetic affinity adsorbent particularly well suited to the purification of glycoproteins, or the removal of glycoprotein and carbohydrate impurities from non-glycosylated molecules (including glycoprotein antigens).

Aminophenylboronate adsorbents are highly stable, resistant to concentrated sodium hydroxide, exhibit negligible ligand leakage and are capable of maintaining their high performance over a very large number of process cycles, even after prolonged storage in sodium hydroxide.

[Click here for more information on Aminophenylboronate P6XL](#)

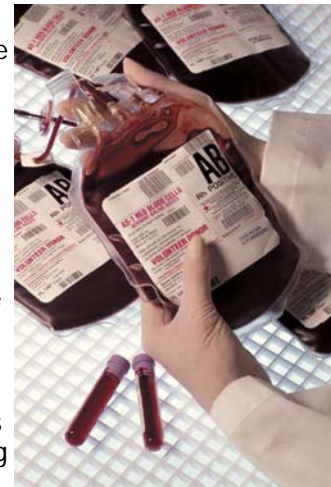
ProMetic and Novozymes Biopharma, a subsidiary of Novozymes, have collaborated on the development of AlbuPure® which was derived from ProMetic's Mimetic Ligand™ technology and targeted at the capture and purification of recombinant albumin proteins produced in yeast. AlbuPure® binds specifically to the albumin portion of the molecule and so can be used for the purification of any albufuse® albumin-fusion protein.

[Click here to read the full press release](#)
[Click here to learn more about PBL's affinity adsorbents for albumin and albumin fusion proteins](#)

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→ ProMetic Announces Agreement to Commercialize Prion Capture Technology

Due to the changing landscape surrounding prion transmission and the worldwide mounting interest in improving the safety profile of blood-derived therapeutics, ProMetic and Abraxis BioScience ("Abraxis") have entered into a collaboration agreement to develop and commercialize various applications deriving from ProMetic's prion capture technology platform. As part of the agreement, Abraxis and ProMetic will equally share in the cost for the development of such new applications as well as the financial rewards arising from their commercialization. Both companies believe that this arrangement will allow them to more fully exploit ProMetic's validated prion capture technology platform.



"Abraxis' corporate strategy includes bringing to the market innovative solutions that provide safer therapies for patients," indicated Mr. Bruce Wendel, Abraxis' Executive Vice President for Corporate Development. Mr. Wendel further added: "ProMetic's innovative protein technologies have already been validated in different commercial applications licensed for sale by the Food and Drug Administration and the European Medicines Agency".

Mr. Pierre Laurin, ProMetic's President and Chief Executive Officer commented: "We are very excited that Abraxis shares our vision and recognizes the significant commercial potential and societal relevance of ProMetic's prion capture technology. ProMetic will greatly benefit from Abraxis' significant resources and knowledge in bringing therapeutics to market. Abraxis' international reach and relevant experience in improving the safety profile of established therapies, in conjunction with

[Click here to purchase a sample of Aminophenylboronate P6XL](#)

Want to develop an affinity capture step for your difficult to purify protein?



PBL's Custom Adsorbent Development Program enables the development of Mimetic Ligand™ adsorbents tailored to suit almost any target biomolecule by use of Intelligent Combinatorial Chemistry (ICC)® which comprises automated synthesis and screening of ligand libraries against the target biomolecule of interest. These programs are conducted by PBL in-house and we work closely with the sponsor throughout.

[Click here for more information on this program](#)

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ProMetic's vast expertise and technological assets in this field, will surely deliver a winning combination".

[Click here to read the full press release](#)
[Click here to learn more about PBL's prion capture technology](#)

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→ An Ideal 96-well Platform for High Throughput Chromatography

Downstream process development is a major contributory factor to overall development time and cost of biopharmaceuticals. Chromatographic separations are fundamental to achieving



purity and yield targets for biological products. Traditionally, scale-down column chromatography has been applied to adsorbent selection and process optimization, but this can be a slow process if experiments are performed sequentially, which significantly limits the number of adsorbents and process options evaluated in a given time. This can result in the most appropriate adsorbents and associated process conditions being overlooked.

PBL has been using robotics in combination with 96 column micro-plate formats for many years to screen libraries of ligand candidates which, on identification of promising results can be developed further into adsorbents used in the full-scale manufacture of biopharmaceuticals. In response to the demand for 96 column micro-plate high throughput screening kits, PBL has developed the PuraPlate™ Absorbent Screening Kit. PuraPlate™ Ligand Screening Kits are available as either standard or custom designed adsorbent arrays containing a broad range of Mimetic Ligands™ for customer specific requirements. PuraPlate™ Absorbent Screening Kit applications are designed on the in-house screening platform utilized by PBL during proven custom ligand/adsorbent development programs. PuraPlate™ Absorbent Screening Kit provides an ideal 96 column micro-plate platform for high throughput chromatography for performing sample analysis and easy process optimization, using a diverse range of conditions in the fastest possible time.

PuraPlate™ Screening Kits are designed for ease of application for feed stocks and buffers using manual pipettes, electronic pipettes, or direct transfer by automated liquid handling workstations. PuraPlate™ Screening Kits provide quick identification of suitable adsorbents for your target molecule by screening multiple media columns in parallel, using many available analytical techniques (SDS-PAGE, ELISA and 96-well

variants of this technique), in comparison to sequential column runs utilized in conventional liquid chromatography. PuraPlate™ Absorbent Screening Kits provide single "run" method optimization of binding, washing and elution conditions (pH, ionic strength), following adsorbent identification (method scouting). Selected adsorbent and optimized conditions highlighted by the PuraPlate™ Absorbent Screening Kit can be applied to conventional liquid chromatography systems for confirmation, further development and scale up using PBL's 1ml screening columns or larger packed beds.

[Click here to learn more about PBL's Mimetic Ligands™ Screening Kits](#)

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ProMetic BioSciences Ltd is a private company limited by shares, incorporated in the Isle of Man with registered number 034251C. The company is also registered as a foreign company at Companies House in the UK, with registration number FC027128. ProMetic BioSciences UK is the branch name of ProMetic BioSciences Ltd, and is registered as a Branch in England & Wales with registration number BR009067. The registered office of ProMetic BioSciences UK and ProMetic BioSciences Ltd is Freeport, Ballasalla, Isle of Man, IM9 2AP, British Isles. The liability of the members of ProMetic BioSciences Ltd is limited.

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