

Automated Multiplexed Gene Expression Profiling



Automated Multiplexed Gene Expression Profiling from samples to signatures.

Isolate and Purify Total RNA

The process begins with Agencourt® Solid Phase Reversible Immobilization (SPRI®) paramagnetic bead-based chemistries from Beckman Coulter. Isolate and purify total RNA from a variety of sample types ranging from cultured cells, tissues, formalin-fixed paraffin embedded (FFPE) tissues, or blood. Agencourt chemistries deliver a high yield and purity of total RNA for downstream applications such as microarray, RT-PCR, qPCR and multiplex gene expression analysis. More consistent recovery of high yield and high quality total RNA is efficiently obtained whether it is manually extracted from a single tube or fully automated in 96-well plate formats on the Biomek® Series automated laboratory workstations.



Quantitate and Normalize Total RNA

Purified total RNA is quantitated on the DTX Multimode Plate reader, using absorbance or fluorescence, then normalized on a Biomek® Series automated laboratory workstation. The DTX Series also provides multiple detection modes to address the needs of most genomics, proteomics or cellular analysis applications. This detector's intuitive software platform delivers instrument control and easy protocol development, as well as integration with the Biomek.

Automated Nucleic Acid Sample and Target Preparation

Automate gene expression sample preparation and reaction setup reliably, accurately, and efficiently with the Biomek® Series automated laboratory workstations. A suite of validated methods automate: total RNA isolation and purification using SPRI® technology, sample normalization and reaction setup.

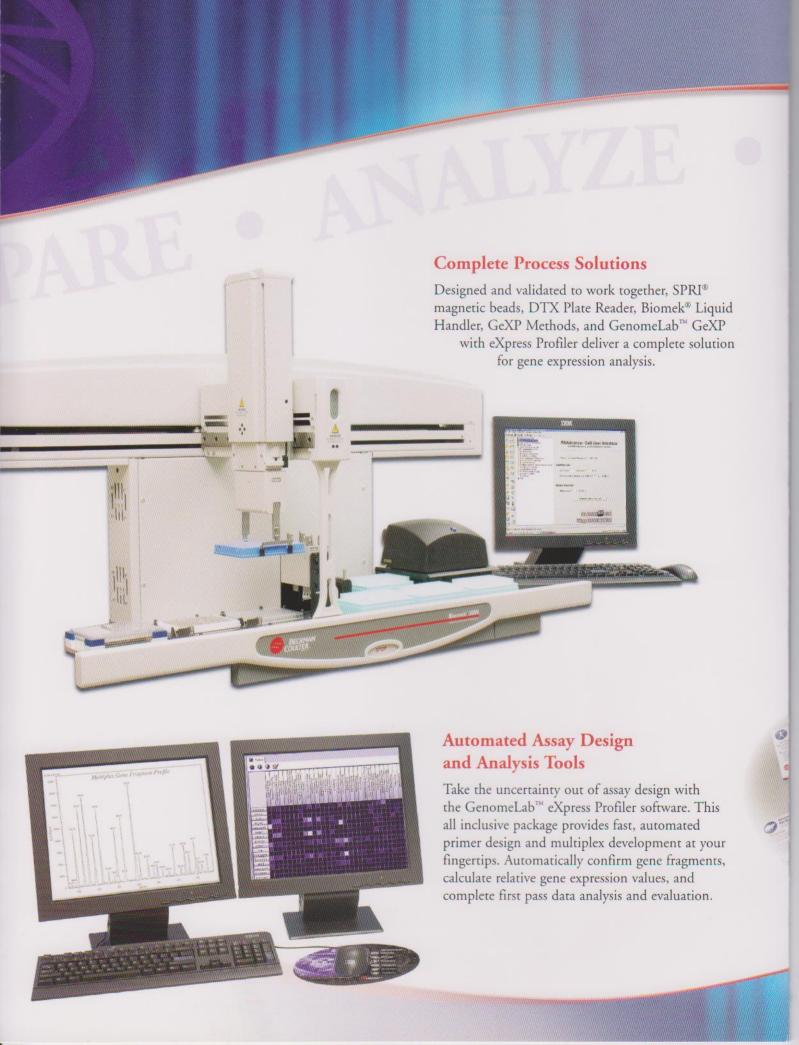
Whichever way you measure gene expression, Beckman Coulter has a complete solution. GeXP methods automate sample preparation and reaction set up for multiplexed gene specific XP-PCR amplification. Multiplexed gene fragments are now ready for expression analysis and evaluation on the GenomeLab™ GeXP. Or you can use the ArrayPLEX automated application to provide target RNA

preparation for the Affymetrix GeneChip* Arrays.





^{*}All trademarks are property of their respective owners.



Separate and quantitate 30 genes in a single reaction and up to 5,760 genes per run.

GenomeLab GoXP BECKMAN COULTER Preformulated,

Preformulated, ready-to-use reagent kits

Multiplexed Gene Expression Analysis

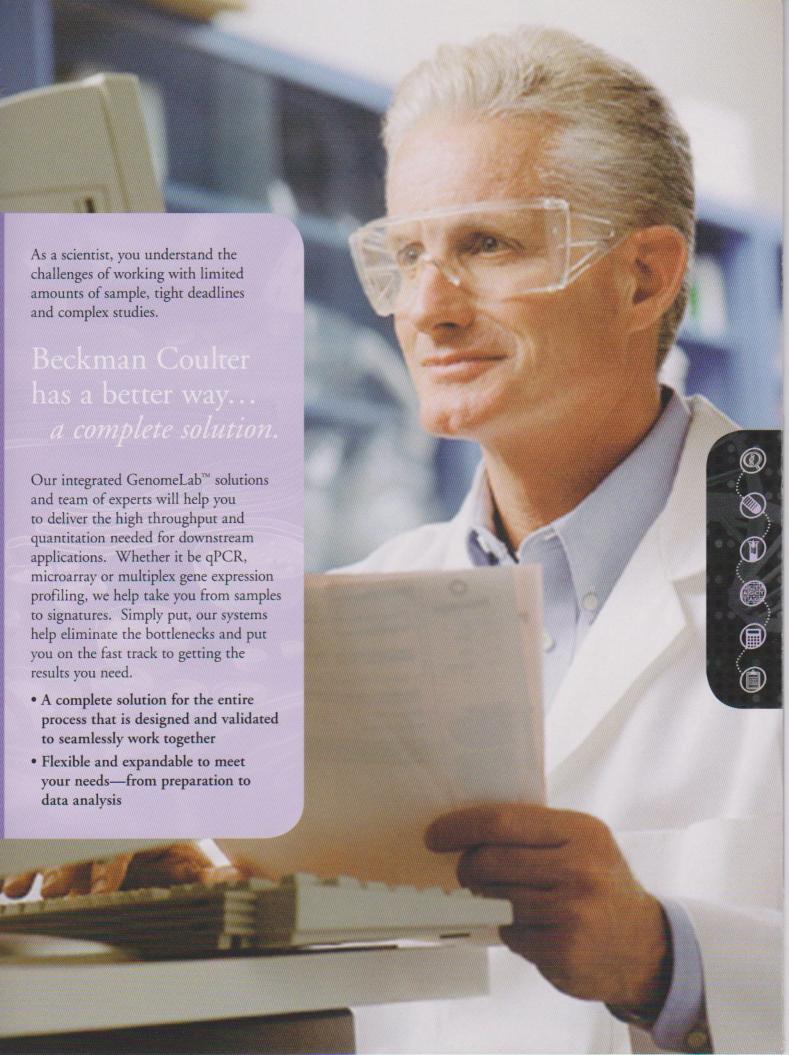
Cost effectively separate and quantitate the expression of up to 30 genes in a single reaction and up to 5,760 genes per run. Fill the gap between whole genome arrays and single gene qPCR with the GenomeLabTM GeXP and remove bottlenecks in your gene expression studies today. By using scalable, multiplexed XP-PCR, you can analyze more genes per reaction and more samples per run than with qPCR, achieving higher throughput and significantly lower costs. The GeXP is ideal for evaluating candidate and signature gene sets that can provide key information relating to biological state, induced response or drug toxicity.

Multiple applications for gene expression

- ✔ Discovery of Gene Targets
- ✔ Pathway Analysis
- ✔ Biomarker Discovery
- Microarray Data Validation
- ✔ RNAi Studies
- ✔ Drug Characterization
- ✔ Development of Signatures
- ✔ Monitor Gene Regulation

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Simplify · Automate · Innovate



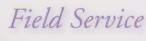


Beckman Coulter...
advancing discoveries that
will help reshape tomorrow.

Our specialized suite of integrated genetic analysis solutions is designed to simplify, automate and innovate genomic processes to help you accelerate the identification of new markers, with biological, diagnostic and therapeutic relevance.

Training and Consultation

Applications Support







With Beckman Coulter, you receive our expertise each step of the way. Our vast array of services spans pre-sale consultation, installation, training, applications and support. In everything we do, we're committed to helping your laboratory be the most efficient and cost effective operation possible.

From field application support to technical telephone and online assitance, our focus is on providing expert service wherever and whenever it is needed. And our online application resource, eLabNotebook[™], delivers the kind of extra value that translates into a competitive advantage.

Our world-class field service specialists have earned an industry-wide reputation for excellence. Wherever you are, a global network of technical experts is available online, on-site, and by phone to help with all your support needs.

For more information about our GenomeLab systems, visit us online at www.beckmancoulter.com/genomelab

Developing innovative solutions in Systems Biology.

Simplify Innovate

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