

ROBUST AND REPRODUCIBLE MICROARRAY ANALYSIS

**BioArray[®] Single Round RNA Amplification
and Labeling System**

ENZ-42420-10

10 Reactions

HIGHLIGHT

- Convenient all-in-one system including biotin-labeled nucleotides
- Widely used and compatible with several microarray platforms including the Affymetrix GeneChip[®]
- Highly sensitive analysis of eukaryotic mRNA with minimal starting materials
- Increased % Present calls on gene expression microarrays
- Improved aRNA yields from a wide range of input RNA
- Highly reproducible results ($r^2 = 0.997$)

Microarray technologies offer insights into mechanisms of disease through identifying changes in gene expression. However, obtaining reliable, high quality data depends upon several factors. The quantity and integrity of starting materials can greatly affect the production of labeled antisense RNA (aRNA). Through linear amplification (patented Eberwine method) the *BioArray[®] Single Round RNA Amplification and Labeling System* accommodates a wide range of input RNA (0.5 μg to 5 μg) with labeled aRNA yields significantly greater than those required for gene expression arrays.

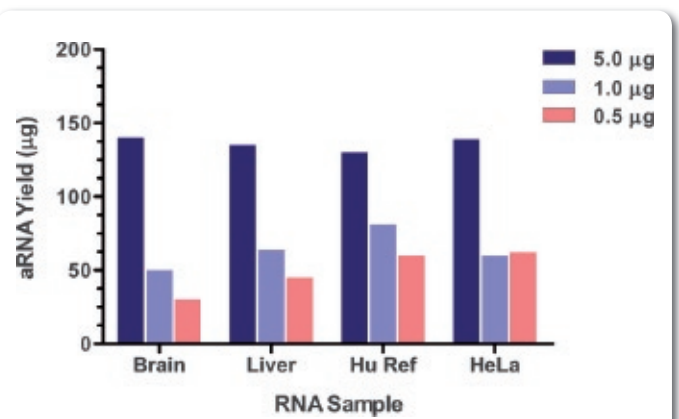


FIGURE 1: *BioArray[®] Single Round RNA Amplification and Labeling System* supports a wide range of input RNA

The *BioArray*[®] Single Round RNA Amplification and Labeling System offers improved data quality and analysis results through greater biotin incorporation. Two different biotin-labeled nucleotides increase incorporation by 25-50% when compared with single biotin labeling systems, yielding brighter signal on microarrays. As a result, the greater signal to noise ratio increases the number of Present calls by almost 8% on average, revealing 1000-4000 more genes, depending upon the array format. Overall, this amplification and labeling kit provides higher quality data and greater confidence in microarray analysis, making it ideal for a variety of microarray platforms including the Affymetrix GeneChip[®].

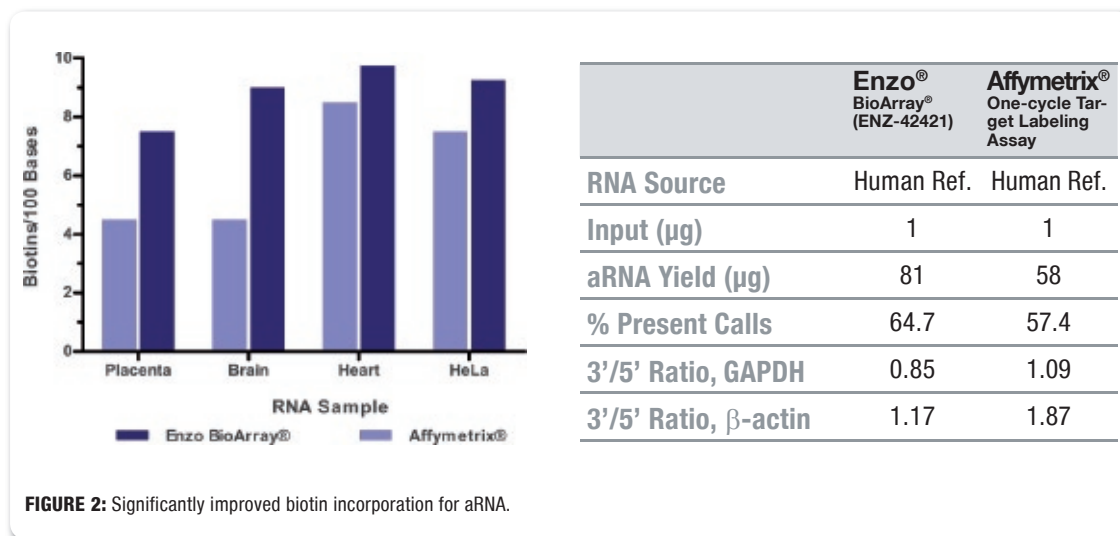


FIGURE 2: Significantly improved biotin incorporation for aRNA.

Related Products

Product	Prod. No.	Size
BioArray[®] 100-Reaction Single Round RNA Amplification and Labeling System	ENZ-42421-100	100 Reactions
Bio-11-CTP	ENZ-42818	250 nmol
Bio-11-dUTP	ENZ-42806	50 nmol
Bio-16-ddUTP	ENZ-42813	25 nmol
Bio-16-dUTP	ENZ-42811	50 nmol
Bio-16-UTP	ENZ-42814	250 nmol
Bio-17-ATP	ENZ-42817	250 nmol
Bio-7-dATP	ENZ-42819	50 nmol
Nick Translation DNA Labeling System	ENZ-42910	50 Reactions
BioProbe[®] 3'-Oligonucleotide Labeling System Reagent Pack	ENZ-42730	25 Reactions
BioProbe[®] Random Primed DNA Labeling System Reagent Pack	ENZ-42720	25 Reactions
BioArray[®] HighYield[™] RNA Transcript Labeling Kit	ENZ-42655-20A ENZ-42655-100	20 Reactions 100 Reactions

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