## **Electrophoresis, Blotting and Immunodetection**

GE

Detection systems - DNA labelling

#### CyDye fluorescent nucleotides



For labelling DNA and RNA probes especially for multicolor analysis in microarrays, FISH, chromosome identification, whole chromosome painting, karyotyping, and gene mapping. CyDye labelled nucleotides are available in a range of bright, intense colours with narrow emission bands - ideal for multiplexing within a single sample.

Catalogue No	Description	Quantity
GZPA53021	Cy3-dCTP	25nMol
GZPA53031	Cy3-dCTP	250nMol
GZPA55021	Cy5-dCTP	25nMol
GZPA55031	Cy5-dCTP	250nMol
GZPA53022	Cy3-dUTP	25nMol
GZPA53032	Cy3-dUTP	250nMol
GZPA55022	Cy5-dUTP	25nMol
GZPA55032	Cy5-dUTP	250nMol
GZPA53521	Cy3.5-dCTP	25nMol
GZPA55521	Cy5.5-dCTP	25nMol
GZ25801086	СуЗ-СТР	100nMol
GZ25801087	Cy5-CTP	100nMol
GZPA53026	Cy3-UTP	100nMol
GZPA55026	Cy5-UTP	100nMol
GZPA55321	Value Pack containing 5 x 25nMol Cy3-dCTP 5 x 25nMol Cy5-dCTP	1
GZPA55322	iZPA55322 Value Pack containing 5 x 25nMol Cy3-dUTP 1   5 x 25nMol Cy5-dUTP 1	

### ECL direct nucleic acid labelling and detection system



 For fast and easy detection of medium- to high-target amounts in applications such as colony/plaque screens, dot blots and PCR\* product analyses

- · Consistent results combining strong signals with very low backgrounds
- No need to strip the blot before reprobing: saves time, reduces membrane damage, and minimises exposure to hazardous chemicals
- Less than 4 hours from probe labeling to detection in high-target amount applications with no antibody steps

ECL direct nucleic acid labelling and detection systems are based on the direct labeling of DNA or RNA probes with horseradish peroxidase (HRP) in a simple 20min chemical reaction. The resulting probe can be used without purification. Detection is achieved by generation of light via the HRP catalysed breakdown of luminol.

Each system includes the following reagents, sufficient for labeling 5µg to 10µg nucleic acid and detecting 2,000cm<sup>2</sup> to 4,000cm<sup>2</sup> of membrane (depending on product ordered): labelling reagent, crosslinker, control DNA, blocking agent, ECL detection reagents, and ECL Gold hybridisation buffer.

Catalogue No	Description	
GZRPN3000	ECL direct labelling and detection system, to label 5µg	
GZRPN3001	ECL direct labelling and detection system, to label 10µg	
GZRPN3005	ECL direct labelling module, to label 5µg	
GZRPN3004	ECL detection reagents, for 2,000cm <sup>2</sup> membrane	
GZRPN2105	<b>RPN2105</b> ECL detection reagents, for 4,000cm <sup>2</sup> membrane	
GZRPN3006	RPN3006 ECL Gold hybridisation buffer, sufficient for 4,000cm <sup>2</sup>	

\*Polymerase Chain Reaction (PCR) is a process covered by patents owned by Hoffman-La Roche

#### illustra CyScribe GFX purification kit

# NEW GH

Allows rapid purification of CyDye labelled cDNA probes.

- Provides efficient removal of unincorporated CyDye label and primers from labelling reactions with superior yields of labelled cDNA probe
- Excellent for the purification of cDNA labelled by either direct incorporation or by post-labelling using CyScribe labelling kits
- Optimised purification reagents are conveniently available in both 25 and 50 column format or can be purchased with the CyScribe labelling kits

Can be used in conjunction with CyScribe microarray labelling kits for either direct incorporation of Cy3- and Cy5-labelled dNTPs or for post-labelling of cDNA with Cy3- and Cy5-monoreactive dye.

The kit uses a glass fibre matrix packed into a spin column format for highly efficient purification of CyDye labelled cDNA. Fluorescently labelled cDNA probes are captured by the matrix, and unincorporated CyDye and primer are removed by washing. Bound probes are eluted with a quick spin in elution buffer. High yields of purified fluorescent cDNA are ready for use in a variety of molecular applications, including hybridisation and microarrays.

Catalogue No	Description	Quantity
GZ27960601	illustra CyScribe GFX purification kit	25 purifications
GZ27960602	illustra CyScribe GFX purification kit	50 purifications

#### Terminal deoxynucleotidyl transferase recombinant



Terminal deoxynucleotide transferase is used in tailing reactions to add complementary homopolymer tails to DNA vectors and cDNA and 3' end-labelling.

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Terminal deoxynucleotide transferase is sourced from an *E. coli* strain that carries the cloned terminal transferase gene from calf thymus. This enzyme catalyses the repetitive addition of mononucleotides from a deoxyynucleotide triphosphate to the terminal 3'-OH of a DNA initiator. Single-stranded DNA is preferred as an initiator.

Catalogue No	Quantity
BPE3203-1	300 units

15 to 30units/µL

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