

**BlueGnome Limited**



## Fluorescent labelling system [dCTP/BAC] (pack 2)

### Version 2

**Model number**

4131b

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#### 1. Supply

The fluorescent labelling system is supplied as two packs.

Pack 1 (model number 4131a)	Labels and buffers	Supplied and stored at -20°C
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Pack 2 (model number 4131b)	Columns and tubes	Supplied and stored at room temperature
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This document describes pack 2

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#### 2. Size

When used in accordance with the recommended protocol pack 2, in combination with pack 1, is sufficient for 16 labelling reactions, 8 hybridizations.

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#### 3. Storage

Pack 2 should be stored at room temperature.

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#### 4. Description

The fluorescent labelling system is for use in the preparation of fluorescent DNA probes. Random primers (nonamers) are annealed to the denatured, non-fragmented, DNA template and extended by exonuclease-free Klenow fragment in the presence of Cy-dCTP conjugates to produce sensitive Cy-DNA probes for use in the non-radioactive detection of DNA and RNA.

Probes are suitable for in-situ hybridization (for instance to chromosome spreads) and microarray hybridization.

15% dextran sulfate hybridization buffer is included in order to support the hybridization of Cy-DNA probes to a microarray comprising BAC (bacterial artificial chromosome) targets on a three dimensional Codelink™ substrate.

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#### 5. Intended use

You are responsible for understanding and performing the protocols supplied with the fluorescent labelling system. BlueGnome does not guarantee any results that you may achieve. All results should be confirmed using an alternative technique.

**Fluorescent labelling system is for Research Use Only. Not for use in diagnostic procedures.**

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6. Contents	Part No.	Amount
<b>AutoSeq™ G50 columns</b> [G50 columns containing a slurry of Sephadex G-50 DNA Grade F at 75% in 0.05% Kathon CG/ICP]	2892 2444 6C	16 units
<b>Collection tubes</b>	406158-04	16 units

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7. MSDS

Material safety data sheets are available as stated or as a download from [www.cytochip.com](http://www.cytochip.com)

AutoSeq™ G50 columns                      On request

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8. History

Date	Version	Comment
14 <sup>th</sup> December 2007	1.0	Original creation
3 <sup>rd</sup> July 2009	2.0	Updated for version 2.0
30 <sup>th</sup> Sept 2009	2.0	Name modified

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9. Further information

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