

SureTag Complete DNA Labeling Kit

Excellent results and complete workflow for CGH, CGH+SNP and CNV microarray applications



The SureTag Complete DNA Labeling Kit is designed for excellent labeling of DNA samples prior to microarray hybridization. The kit is optimized for Agilent CGH, CGH+SNP and CNV microarrays. It contains all components necessary to prepare genomic DNA for hybridization, including restriction enzymes and purification columns to enhance and streamline the workflow. The kit also includes genotyped male and female human reference DNA which are ideal for use with the Agilent CGH+SNP workflow.

The SureTag Complete DNA Labeling Kit delivers biologically equivalent results with enhanced performance relative to the Agilent Genomic DNA Enzymatic Labeling Kit and provides the highest quality data compared to other labeling methods. Our experimental results show excellent yield and dye incorporation (Figure 1) as well as higher signal intensity and lower probe-to-probe variability (Figure 2) with the new SureTag kit. Agilent reference DNA provides consistent performance compared to other reference DNA samples (Figure 3).

Key Features

- Efficient labeling provides reproducibility and confidence
- High signal-to-noise ratio and low probe-to-probe variability maximize sensitivity
- Kit includes restriction digestion enzymes, clean-up columns, male and female reference DNA
- Optimized reagent formulation enables robust performance

Excellent labeling performance

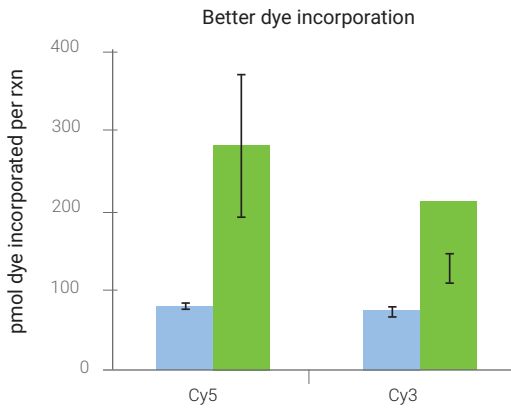
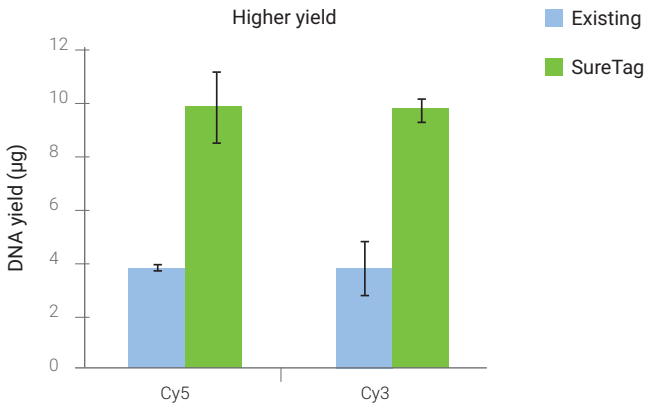


Figure 1. Four replicate 500 ng DNA samples were labeled using the new SureTag Complete DNA Labeling Kit. The high yield and improved dye incorporation with the SureTag kit show excellent labeling efficiency, providing confidence in your results.

DLRS 4x180K array comparison

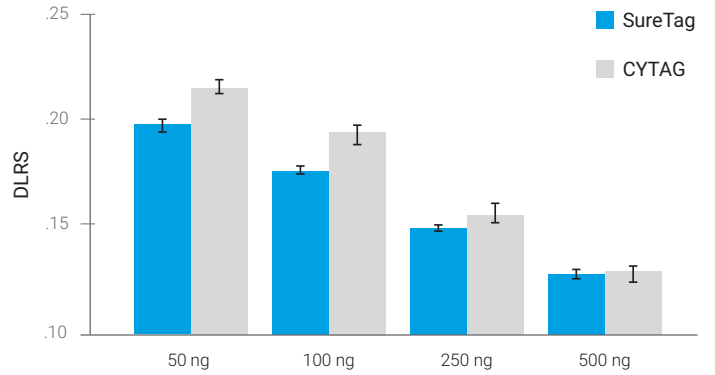


Figure 2. Average DLRS for the SureTag and CYTAG kits at 50 ng, 100 ng, 250 ng, and 500 ng on the 4x180k array.



Figure 3. CytoGenomics gene views of region chr2:215,049,680-228,194,879 of LCP-02 at input 500 ng on the 4x180k for both the SureTag (A) and CYTAG (B) kits. Agilent shows comparable results in data quality as shown by the distribution of the probes.

Agilent CGH Microarray Reagent portfolio

Processing Step	Product Name	Contents	Part Number
Sample Labeling	SureTag Complete DNA Labeling Kit	<i>Rsa-I</i> , <i>Alu-I</i> restriction enzymes, labeling reagents and dyes, purification columns, male and female reference DNA	5190-4240
Sample Hybridization	Oligo aCGH/ChIP-on-chip Hybridization Kit	Hybridization and blocking reagents	5188-5220 (25) 5188-5380 (100)
	Human Cot-1 DNA	Human non-specific hybridization blocking reagent	5190-3393
Microarray Wash	Oligo aCGH/ChIP-on-chip Wash Buffer Kit	Oligo aCGH wash buffers	5188-5226

www.agilent.com/genomics/suretag

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