

CytoSure



A Sysmex Group Company

Sample Tracking Spike-ins

Features

- Unique design to enable reliable sample tracking
- Simple one-step procedure with no alteration to existing workflows
- Backed up by CytoSure Interpret Software

Confident sample identity tracking for use with CytoSure arrays

Increasing numbers of aCGH samples combined with higher-throughput array formats means that it is imperative to track samples throughout the labelling, hybridisation and analysis process to maintain sample identity. CytoSure® Sample Tracking Spike-ins are uniquely designed to enable reliable sample tracking and easy identification of sample mix-up using OGT's class-leading CytoSure Arrays and CytoSure Interpret Software.

Confidence in results

As aCGH is now recognised as the first-tier test for research into numerous cytogenetic aberrations, many laboratories are scaling up their processes to increase throughput and reduce costs. Parallel processing of higher numbers of samples increases the possibility of sample mix-up. Even automated workflows contain several steps where sample identity can be lost (e.g. pipetting samples into gasket slides). CytoSure Sample Tracking Spike-ins enable researchers to quickly and easily identify any erroneous samples ensuring only accurate data is reported.

Simple one-step procedure with no alteration to existing workflows

Each CytoSure Sample Tracking Spike-in is designed to a specific, unique region of the genome. Oligonucleotide probes complementary to the spike-ins are included on all of the arrays supplied and optimised by Oxford Gene Technology (OGT). Eight different CytoSure Sample Tracking Spike-ins are available. Each spike-in has been carefully prepared to ensure that there is no cross-hybridisation with other probes on the array or with any other region on the genome. Each spike-in supplied is sufficient for 12 labelling reactions and is provided in 3 separate aliquots to avoid potential DNA degradation caused by repeated freeze thawing. In addition, colour-coded caps are used for ease of identification, aiding correct usage. The spike-in is pipetted into the labelling reaction, then the labelling reaction and array processing continues following the standard workflow. CytoSure Sample Tracking Spike-ins are particularly suitable for use when labelling reactions are prepared in tubes and ideally complement the 24 reaction CytoSure Genomic DNA Labelling Kit.

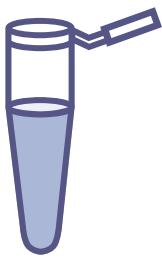
CytoSure Sample Tracking Spike-ins deliver:

- Confidence in results
- Simple one-step procedure with no alteration to existing workflows
- Easy identification of sample mix-up

Easy identification of sample mix-up

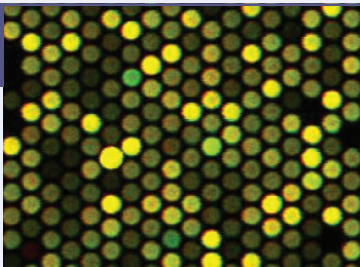
The specific CytoSure Sample Tracking Spike-in used is simply selected in the CytoSure Interpret Software and the system automatically confirms if the resultant data is correct for this spike-in, thereby identifying whether there has been a sample mix-up (Figure 1).

Step
1



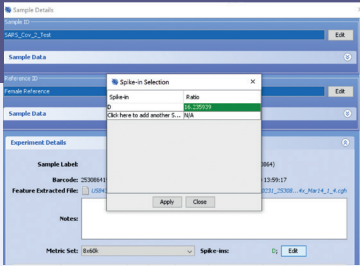
Add Spike-in D to your sample

Step
2



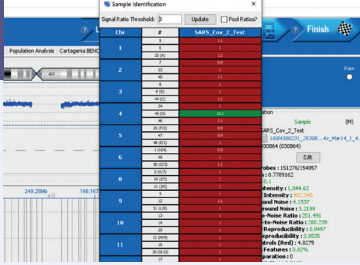
Labelling and array processing

Step
3



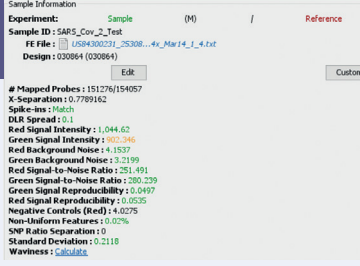
Select Spike-in D in CytoSure Interpret

Step
4



Spike-in identity displayed

Step
5



Spike-in match confirmed

Figure 1: Fast and intuitive entry of CytoSure Sample Tracking Spike-in into CytoSure Interpret Software. Drop-down menus allow the user to quickly enter the specific spike-in used in the labelling reaction. The identity of the sample tracking spike-in is clearly displayed after analysis.

Ordering information

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Product	Contents	Cat. No.
CytoSure Sample Tracking Spike-ins A – H	Sample Tracking Probe sufficient for 12 reactions supplied in three aliquots	Various
CytoSure Constitutional v3 and CytoSure Constitutional v3+LOH arrays	Microarrays with a choice of formats; Interpret Software	Various
CytoSure Custom Arrays	Microarray with a choice of formats; Interpret Software	Various
CytoSure Consortium Cancer +SNP (4x180k)	Microarray with four arrays of 180,000 spots; Interpret Software	020071
CytoSure Genomic DNA Labelling Kit	24 reactions: clean-up columns, dyes, nucleotide mix, random primers, enzyme, collection tubes	020020
CytoSure Interpret Software	Class-leading data analysis software. Complimentary with all array purchases	020022



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**What binds us,
makes us.**

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