

GeneTitan® Hybridization, Wash, and Stain Kit for 3' IVT Arrays

96 Reactions

Intended Use

This package insert provides information for the GeneTitan® Hybridization, Wash, and Stain Kit for 3' IVT Arrays (P/N 901530). The kit is composed of two boxes:

- P/N 901623: GeneTitan® Hybridization and Stain Module for 3' IVT Arrays*
- P/N 901583: GeneTitan® Wash Buffers A and B Module

The GeneTitan Hybridization, Wash, and Stain Kit includes all the necessary solutions for processing Affymetrix® 3' IVT array plates.

*The GeneTitan Hybridization, Wash, and Stain Kit (P/N 901530) consists of P/N 901623 and 901583. Part Number 901623 is not available for purchase separately.

Introduction

During the laboratory procedure for various GeneChip® target labeling assays, biotin-labeled RNA fragments (referred to as the "target") are generated. After target preparation, arrays are processed in preparation for scanning. A hybridization cocktail is prepared including the labeled, fragmented target and hybridization controls. The target is then hybridized to the GeneChip array in array plate format during a 16-hour incubation. Immediately following hybridization, the array is washed and stained with streptavidin phycoerythrin conjugate using an automated protocol, followed by scanning on a GeneTitan Instrument.

The GeneTitan Hybridization, Wash, and Stain Kit includes pre-formulated solutions to process 96 reactions on HT array plates on the GeneTitan Instrument. The kit includes two boxes: P/N 901623 contains the Hybridization and Stain components. The Hybridization components include the solutions required for the preparation of the hybridization cocktail containing the target. The Stain components include Stain Cocktail 1 & 3, Stain Cocktail 2, and Array Holding Buffer. P/N 901583 includes Wash Buffer A and Wash Buffer B, also required for the processing of HT array plates on the GeneTitan Instrument. Additional bottles of Wash Buffers A and B are also available for purchase individually.

The GeneTitan Hybridization, Wash, and Stain Kit reagents are formulated into the fewest number of individual components possible, reducing preparation and handling steps. Stain Cocktail 1 & 3, Stain Cocktail 2, Array Holding Buffer and Wash Buffers A and B are ready-to-use solutions. The hybridization cocktail is prepared by combining the HT 1.3X Hybridization Mix, and Nuclease-free Water with the target prepared by the user during the specific GeneChip target labeling assay.

NOTE: Hybridization controls are required and must be purchased separately. The GeneChip® Hybridization Control Kit includes the Control Oligonucleotide B2. The Control Oligonucleotide B2 is also available for individual purchase.

Kit Components

Component	Volume	Storage
P/N 901623		
1.3X Hybridization Mix Solution A	5.2 mL	2°C to 8°C
1.3X Hybridization Mix Solution B	9.6 mL	2°C to 8°C
Stain Cocktail 1 & 3	22 mL	2°C to 8°C
Stain Cocktail 2	13 mL	2°C to 8°C
Array Holding Buffer	110 mL	2°C to 8°C
P/N 901583		
Wash Buffer A	1,045 mL	2°C to 8°C
Wash Buffer B	450 mL	2°C to 8°C

Ordering Information

P/N	Product Name	Description/Size
901530	GeneTitan® Hybridization, Wash, and Stain Kit for 3' IVT Arrays ¹	96 Reactions
901583	GeneTitan® Wash Buffers A and B Module	Wash Buffer A = 1,045 mL Wash Buffer B = 450 mL
900454 900457	GeneChip® Hybridization Control Kit	30 Reactions 150 Reactions
900301	GeneChip® Control Oligo B2, 3 nM	30 Reactions

1. The GeneTitan Hybridization, Wash, and Stain Kit for 3' IVT Arrays includes two boxes: P/N 901623 contains the Hybridization and Stain components, and P/N 901583 contains the Wash Buffers.

Additional Affymetrix® reagents are available for purchase separately. Please refer to www.affymetrix.com for related product ordering information.

Affymetrix products can be purchased directly from Affymetrix in the United States, many European countries, and many Asian countries. For all other territories, please view a list of our distribution partners, which can be located at: www.affymetrix.com/site/contact/index.affx.

Protocol Information

IMPORTANT: Specific protocols and Fluidics Scripts are required for various GeneChip array applications when using the GeneTitan Hybridization, Wash, and Stain Kit. Please refer to www.affymetrix.com for a list of supporting manuals, protocols, and additional information on the appropriate Fluidics Scripts for use with this kit.

Storage

The GeneTitan Hybridization, Wash, and Stain Kit should be kept at 2° to 8°C.

Functional Testing

Each lot of reagents is rigorously tested for performance.

Safety Information

WARNING! Contains Sodium Azide. May react with lead and copper plumbing to form highly explosive metal azides.

A Material Safety Data Sheet(s) (MSDS) is available at www.affymetrix.com. The MSDS(s) are sent only on the first shipment, unless a substantial revision occurs. If the product is a kit or is supplied with more than one material, please refer to the MSDS for each component for hazard information.

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