

Axiom™ 2.0 Reagent Kit

Intended Use

The Affymetrix Axiom™ 2.0 Reagent Kit enables genotyping of SNPs and in/dels on Axiom™ Genome-Wide Array Plates and Axiom™ myDesign™ Array Plates. This kit is available in a 96 reaction format. The kit includes the reagents and control DNA required to:

- Produce hybridization-ready targets for Axiom Genome-Wide Array Plates and Axiom myDesign Array Plates.
- Process array plates on the Affymetrix GeneTitan® Multichannel Instrument.

This product is for research purposes only and is not intended for use in the diagnosis of disease.

Ordering Information

Reagent Kit

| Product Name | Description | Part Number |
|------------------------|-----------------------|-------------|
| Axiom™ 2.0 Reagent Kit | 1 kit of 96 reactions | 901758 |

Supporting Products

For a complete list of supporting products please visit www.affymetrix.com.

Affymetrix products can be purchased directly from Affymetrix in the United States, and many European and 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.

Instructions for Use

For instructions on using this reagent kit and Axiom Genome-Wide Array Plates and Axiom myDesign Array Plates, refer to the following documentation:

- *Axiom™ 2.0 Assay Automated Workflow User Guide*, P/N 702963
- *Axiom™ 2.0 Assay Manual Workflow User Guide*, P/N 702990
- *Axiom™ 2.0 Assay Automated Workflow Site Prep Guide*, P/N 702984
- *Axiom™ 2.0 Assay Manual Workflow Site Prep Guide*, P/N 702991
- *Axiom™ 2.0 Assay Automated Target Prep Protocol QRC*, P/N 702962
- *Axiom™ 2.0 Manual Target Prep Protocol QRC*, P/N 702989
- *GeneTitan® MC Protocol for Axiom 2.0 Array Plate Processing QRC*, P/N 702988
- *Axiom™ Genotyping Solution Analysis Guide*, P/N 702961
- *Axiom™ 2.0 gDNA Sample Prep Protocol QRC*, P/N 702987

Axiom 2.0 Reagent Kit Components

This reagent kit consists of the 4 modules.

Module 1: store at –25 °C to –15 °C

- Axiom 2.0 Denat Soln 10X
- Axiom 2.0 Neutral Soln 10X
- Axiom Water
- Axiom Reference gDNA 103
- Axiom 2.0 Amp Soln
- Axiom 2.0 Amp Enzyme

Module 2 — Box 1 of 2: store at –25 °C to –15 °C

- Axiom Frag Enzyme
- Axiom 10X Frag Buffer
- Axiom Precip Soln 2
- Axiom Hyb Buffer
- Axiom Hyb Soln 1

Module 2 — Box 2 of 2: store at 2 °C to 8 °C

- Axiom Frag Diluent
- Axiom Frag Rxn Stop
- Axiom Precip Soln 1
- Axiom Resusp Buffer
- Axiom Hyb Soln 2

Module 3: store at room temperature

- Axiom Wash Buffer A
- Axiom Wash Buffer B
- Axiom Water

Module 4 — Box 1 of 2: store at –25 °C to –15 °C

- Axiom Ligase Buffer
- Axiom Ligase Enzyme
- Axiom Ligase Soln 1
- Axiom Probe Mix 1
- Axiom Stain Buffer
- Axiom Stabilize Soln

Module 4 — Box 2 of 2: store at 2 °C to 8 °C

- Axiom Ligase Soln 2
- Axiom Probe Mix 2
- Axiom Wash A
- Axiom Stain 1-A
- Axiom Stain 1-B
- Axiom Stain 2-A
- Axiom Stain 2-B
- Axiom Stabilize Diluent
- Axiom Water
- Axiom Hold Buffer

Precautions

1. AXIOM REAGENTS ARE FOR RESEARCH USE ONLY; NOT FOR DIAGNOSTIC PROCEDURES.
2. Avoid microbial contamination, which may cause erroneous results.
3. **WARNING: All biological specimens and materials with which they come into contact should be handled as if capable of transmitting infection and disposed of with proper precautions in accordance with federal, state, and local regulations. This includes adherence to the OSHA Bloodborne Pathogens Standard (29 CFR 1910.1030) for blood-derived and other samples governed by this act. Never pipet by mouth. Avoid specimen contact with skin and mucous membranes.**
4. **CAUTION:** Exercise standard precautions when obtaining, handling, and disposing of potentially carcinogenic reagents.
5. Exercise care to avoid cross-contamination of samples during all steps of this procedure, as this may lead to erroneous results.
6. Use powder-free gloves whenever possible to minimize the introduction of powder particles into sample or array cartridges.

Safety Information

A Material Safety Data Sheet(s) (MSDS) is available at www.affymetrix.com.

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. The MSDS are also available at: www.affymetrix.com/support/technical/safetydatasheetsmain.affx

Caution:

The 10X Denaturation Solution contains Potassium Hydroxide. Warning: Corrosive [CAS# 1310-58-3]

The Hybridization Buffer contains Tetramethylammonium Chloride (TMAC). Warning: Highly Toxic. [CAS# 75-57-0]

The Hybridization Solution 2 contains Formamide. Warning: Teratogen. [CAS# 75-12-7]

The Stabilize Solution contains Glutaraldehyde. Warning: Sensitizer. [CAS# 111-30-8]

The Ligate Solution 2 contains Dimethyl Sulfoxide (DMSO). Warning: Combustible Liquid. [CAS# 67-68-5]

The Wash Buffer A and Wash Buffer B contain $\leq 0.02\%$ Sodium Azide. [CAS# 26628-22-8]

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