DMET™ Plus Array

INTENDED USE

Human genome sequence variation, which includes both single nucleotide polymorphisms (SNPs) as well as more complex structural variation in the form of insertions, duplications and deletions, underlies each individual's response to drugs. The DMET™ Plus Array is part of the DMET™ (Drug-Metabolizing Enzymes and Transporters) Plus Premier Pack that enables comprehensive and accurate genotyping of specific polymorphisms involved in drug metabolism response.

The polymorphisms represented on this array were chosen by virtue of their functional significance as documented in the scientific literature and have been publicly reviewed and prioritized by a panel of experts made up from both the pharmaceutical industry and academia. The product is capable of genotyping 1,936 high-value drug metabolism and transporter markers in 225 genes. These markers have been evaluated across a minimum of 1,200 individuals from multiple populations, including Caucasian, African and Asian.

Refer to the *DMET™ Plus User Guide* (P/N 702687) for procedures on DNA target preparation, target hybridization, fluidics setup, and array scanning for processing DMET Plus Arrays.

SPECIFICATIONS

Specification	Value
Array Format	169
Feature Size	5 µm
Fluidics Station Protocol	DMET_Plus_169_v2
Hybridization Volume	95 µL
Library Files	DMET_Plus*.*

ORDERING INFORMATION

P/N	Product Name	Description
901317	DMET Plus Array	48 Arrays

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INSTRUMENTATION AND SOFTWARE REQUIRED

1. Affymetrix GeneChip® Scanner 3000
2. Affymetrix GeneChip® Fluidics Station 450
3. Affymetrix GeneChip® Command Console (AGCC)
4. Affymetrix GeneChip® Hybridization Oven 640 or 645

STORAGE, HANDLING AND STABILITY

The DMET Plus Array consists of a square glass substrate mounted in a plastic cartridge (Figure 1). The glass contains an array of oligonucleotides that, when mounted, is on the inner glass surface. A chamber in the plastic housing directly under the glass acts as a reservoir where hybridization and washing occur.

Although the inner glass surface of the probe array is protected, any contamination or scratches on the outer surface of the glass can compromise the accuracy of the scan. Avoid touching the surface of the glass with your fingers. Skin oils and other substances, such as lotions or ink, can fluoresce. If the surface of the glass is noticeably dirty, it can be carefully cleaned with a non-abrasive laboratory tissue.

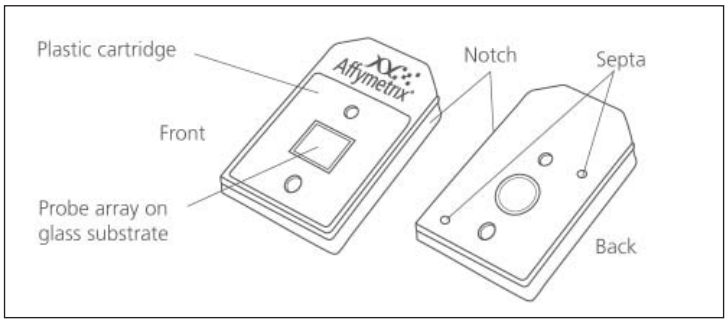

Figure 1. DMET Plus Array

DMET Plus Arrays should be stored at 2° to 8°C. Refer to the expiration date on the package label. Do not use arrays or reagents after the expiration date.

PRECAUTIONS

1. DMET PLUS ARRAYS 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 introduction of powder particles into sample or probe array cartridges.

PATENTS

Products may be covered by one or more of the following patents and/or sold under license from Oxford Gene Technology: U.S. Patent Nos. 5,445,934; 5,700,637; 5,744,305; 5,945,334; 6,054,270; 6,140,044; 6,261,776; 6,291,183; 6,346,413; 6,399,365; 6,420,169; 6,551,817; 6,610,482; 6,733,977; and EP 619 321; 373 203 and other U.S. or foreign patents.

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