

DMET™ Plus Kit

**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 Kit 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 in this product 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.

For Research Use Only. Not for use in diagnostic procedures.

DMET PLUS KIT, P/N 901268

The contents of the DMET Plus Kit is sufficient to process 42 samples and 6 controls. This kit consists of:

- DMET™ Plus Reagent Kit, P/N 901267, consisting of:
 - Box 1: DMET™ Plus Pre-Amp Kit
 - Box 2: DMET™ Plus Labeling Kit
 - Box 3: DMET™ Plus Hyb-Stain Kit
 - Box 4: DMET™ Plus Panel Kit
- Wash Solution A (3 bottles)
- Wash Solution B (2 bottles)
- 48 DMET™ Plus Arrays, P/N 901317

INSTRUCTIONS FOR USE

Refer to the *DMET™ Plus User Guide* (P/N 702687) and set of Quick Reference Cards (P/N 702693) for instructions on processing genomic DNA and controls using this kit.

For single use only. Do not thaw and refreeze reagents. Use immediately once thawed.

BOX 1: DMET PLUS PRE-AMP KIT

Component	Volume
Store at -20 °C.	
Enzyme A	10 µL
Buffer A	300 µL
Pre-Amp Water	1.5 mL
GapFill Mix 1	10 µL
GapFill Mix 2	200 µL
Exo Mix	300 µL
Universal Amp Mix	2 mL
Cleavage Enzyme	30 µL
dNTP Mix	300 µL

BOX 2: DMET PLUS LABELING KIT

Component	Volume
Store at -20 °C.	
PCR Cleanup Mix	200 µL
Post-Amp Water	1 mL
Fragmentation Buffer	250 µL
Fragmentation Reagent	25 µL
DNA Labeling Reagent	75 µL
5XTdT Buffer	420 µL
TdT Enzyme	70 µL

BOX 3: DMET PLUS HYB-STAIN KIT

Component	Volume
Store at -20 °C.	
Oligo Control Reagent	70 µL
Hybridization Solution	6 mL
Stain Buffer	16 mL
Hold Buffer	16 mL

BOX 4: DMET PLUS PANEL KIT

Component	Volume
Store at -20 °C.	
DMET mPCR Primer Mix	300 µL
DMET MIP Panel	300 µL
1XTE Buffer	2 mL
PCR Dilution Buffer	20 mL
DMET gDNA Control 1	20 µL
DMET gDNA Control 2	20 µL
DMET gDNA Control 3	20 µL
DMET Plasmid Control A	20 µL
DMET Plasmid Control B	20 µL
DMET Plasmid Control C	20 µL

WASH SOLUTIONS

Component	Volume
Store at room temperature.	
Wash Solution A (3 bottles)	500 mL/bottle
Wash Solution B (2 bottles)	500 mL/bottle

ARRAYS

Component	Quantity
Store at 4 to 8 °C.	
DMET Plus Array	48

ORDERING INFORMATION

P/N	Product Name	Description
901268	DMET Plus Kit	Sufficient for 42 samples and 6 controls
	Consists of:	
	• DMET Plus Reagent Kit, P/N 901267 (1 kit)	
	• Wash Solution A (3 bottles)	
	• Wash Solution B (2 bottles)	
	• DMET Plus Array, P/N 901317 (48 arrays)	

PRECAUTIONS

1. AFFYMETRIX 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 and other potentially infectious materials 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.
7. Four different reagent boxes are provided to allow storage of the components in a manner consistent with the recommended workflow to minimize the chance of DNA contamination.

STORAGE, HANDLING AND STABILITY

Store as directed on each box.

For single use only. Do not thaw and refreeze reagents. Use immediately once thawed.

Reagents are stable until the expiration date indicated.

SAFETY INFORMATION

Material Safety Data Sheets (MSDSs) are available from Affymetrix at www.affymetrix.com/support/technical/safetydatasheetsmain.affx.

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.

CONTACT INFORMATION

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