

DMET	
Service Title	DMET (Drug Metabolizing Enzymes and Transporters) PLUS genotyping arrays
Workflow Code	AFFY_DMET
Short Service Description	Contains comprehensive coverage of all drug metabolism biomarkers. Assesses markers known to influence drug metabolism. Intended for clinical use in collaboration with Pharma.
Base Price (Price per unit)	Price on enquiry
Turn Around Time	7 working days
Detailed Description and background	
<p>DMET Plus genotypes 1,936 high -value drug metabolism and transporter markers in 225 genes (50 CYP450 enzymes, 45 Phase II enzymes , 64 drug transporters and 66 Transcription regulators & other enzymes) . This coverage enables the discovery of new biomarker associations, the determination of drug responders versus non- responders and enables optimization of drug dosing. The assay includes a set of 3 controls to monitor assay performance.</p>	
Service Details	
<p>There is no limit on size number. DNA must be of good quality (good 260/280 ratios 1.8 - 2.1; 260/230 ratios >1.8), non-degraded and not contaminated with PCR products. DNA concentration should 100ng/ul. The assay workflow entails multiplex PCR, gap fill to create padlock structures, fragmentation and labelling and finally hybridisation to array. Data is analysed in DMET™PLUS Console. The data is reported in a method understood by pharmacogeneticists using star allele nomenclature. The results can be interrogated using applicable databases.</p>	
Service Deliverable	
<p>Following initial analyses using AffymetrixDMET Plus Console, the raw data files are sent to the client with a data QC report. If required, bioinformatics support can be provided.</p>	
Sample/Info Submission Info	
<p>1 sample per array. At least 1020 ng of good quality DNA (in RNase free water)is required at a minimum concentration of 60ng/ul, 260/280 ratios 1.8-2.1 and 260/230 ratios >1.80. Samples should be submitted on dry ice with a sample submission form (this will be sent to the client in advance) providing all the sample details required. Samples are run in batches of 45.</p>	
Pricing Details	Price on request
Key Words	Drug metabolism, FDA-validated genes, ADME core markers, DNA, Pharmacogenetics, Pharmacogenomics, clinical trials
Sample Shipping Address	Institute of Infectious Disease and Molecular Medicine, UCT, Faculty of Health Sciences, Wernher and Beit Building, Level 2, Lab S2.09, Anzio Road, Observatory, Cape Town 7925, South Africa
Related services	Bioinformatics, custom genotyping, Dcypfr

