

**Table S7.** Substrate for each enzyme and analyzed number of lots.

Enzyme	Substrate and reaction	Vendor	Number of lots	
			Single donor	Pooled
CYP1A2	Phenacetin <i>O</i> -dealkylation	A, B, C, D	159	16
CYP2C9	Diclofenac 4'-hydroxylation	A, B	109	16
CYP2C19	<i>S</i> -Mephenytoin 4'-hydroxylation	A, B, C, D	158	16
CYP2D6	Dextromethorphan <i>O</i> -demethylation	A, B, C, D	163	16
CYP3A4/5	Midazolam 1'-hydroxylation	A, B, D	134	16
CYP3A4/5	Testosterone 6 $\beta$ -hydroxylation	A, B, C	139	16
CYP2E1	Chlorzoxazone 6-hydroxylation	A, B	110	16
UGT	7-Hydroxycoumarin-Glu	A, B, C	114	16
SULT	7-Hydroxycoumarin-Sul	A, B, C	110	16

Glu: Glucuronidation

Sul: Sulfonation