

New! Silensomes™ CYP Phenotyping Kits

Improving Predictability One CYP at a Time



Introducing Silensomes™ CYP Phenotyping Kits– A New Approach for P450 Phenotyping Assays

Silensomes™ CYP Phenotyping Kits consist of pre-characterized human pooled liver microsomes (HLMs) chemically and irreversibly inactivated for one specific CYP using mechanism-based inhibitors.

Each Silensomes™ CYP Phenotyping Kit is available as cryopreserved, ready-to-use HLM controls or HLM chemically knocked-down for one specific CYP activity (i.e.1A2, 2A6, 2B6, 2C8, 2C9, 2C19, 2D6, 3A4).

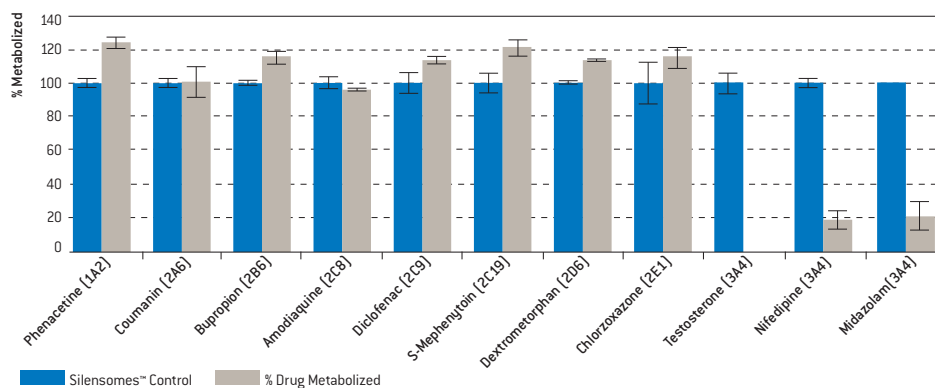


Figure 1. Evaluation of metabolism for 11 chemicals using Silensomes™ CYP3A4 Kits. Values represent % drug metabolized compared to matched Control Silensomes™ HLM. Residual activity in Nifedipine and Midazolam treated Silensomes™ CYP3A4 HLM is due to CYP3A5 activity towards these chemicals.

The thaw-and-go format of Silensomes™ HLM enables researchers to focus less on validating the level of CYP inhibitions, and more on results that are highly consistent and easier to interpret.

Format

Each specific CYP Silensomes™ HLM is supplied in 150 µL as 20mg/mL microsomal protein either with a Control Silensome™ HLM pool that was treated under the exact same conditions without inhibitor, or with matched Control Silensome™ HLM (batch dependent).

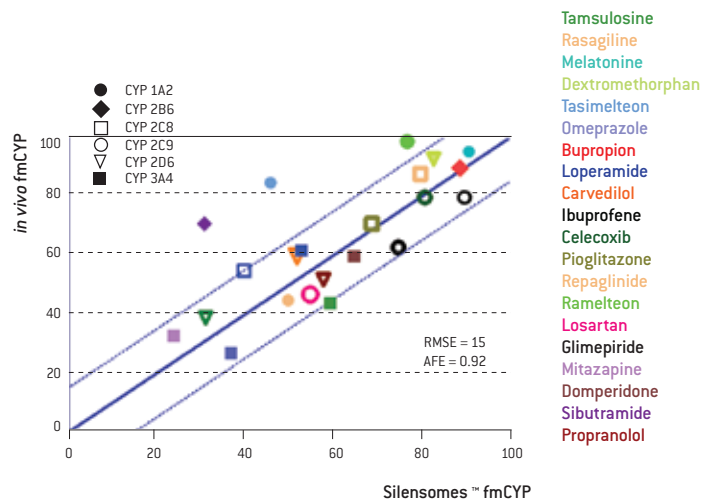


Figure 2. Correlation of fraction metabolized (fm) calculated from using Silensomes™ HLM with known *in vivo* fm for 20 drugs.

Ordering Information

Cat. No.	Description
SIL000	One Control Silensomes™ HLM
SIL200K	Silensomes™ CYP3A4 Kit with Control
SIL210K	Silensomes™ CYP1A2 Kit with Control
SIL220K	Silensomes™ CYP2A6 Kit with Control
SIL230K	Silensomes™ CYP2B6 Kit with Control
SIL240K	Silensomes™ CYP2D6 Kit with Control
SIL250K	Silensomes™ CYP2C8 Kit with Control
SIL260K	Silensomes™ CYP2C9 Kit with Control
SIL270K	Silensomes™ CYP2C19 Kit with Control
SIL-MCPNL	Silensomes™ CYP Phenotyping Kit

Silensomes™ CYP Phenotyping Kits are available now from Lonza for compound screening purposes and for regulatory validation.

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