

Codex[®]

MicroCyp[®] Enzymes

Increased performance for metabolite production and lead diversification

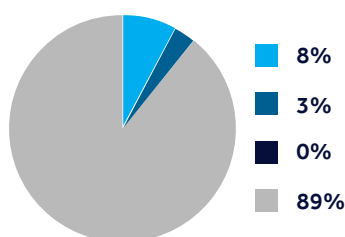
CODEX[®] Standard MicroCyp[®] and Elite MicroCyp[®]

Codex[®] Standard MicroCyp[®] (MCYP[®]) enzymes have been at the forefront of the P450 enzyme market space for more than a decade. They offer a simple approach to fictionalize compounds for mammalian-type metabolite production or lead diversification. Conveniently arrayed in a 24-well plate for either robotic or manual manipulation, the product is a user-friendly tool for medicinal chemists and development scientists to generate new molecules and metabolites for their work.

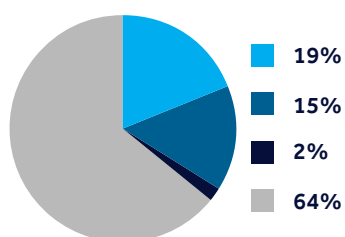
Codex[®] Elite MicroCyp[®] enzymes, were developed using our CodeEvolver[®] technology platform, and are improved over our Standard MicroCyp[®] enzymes. The Elite MicroCyps are more active, have increased stability in polar aprotic solvents for screening substrates with solubility issues, and show greater substrate promiscuity. These attributes make the Elite MicroCyps[®] a valuable option, especially where novel compounds or larger quantities are required.

Comparison data of Standard MCYP[®] and Elite MCYP[®]

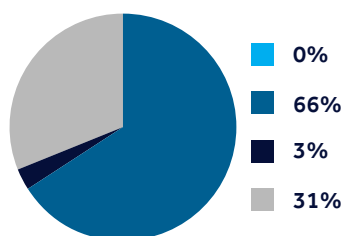
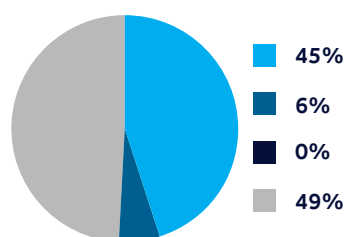
Standard MCYP[®]



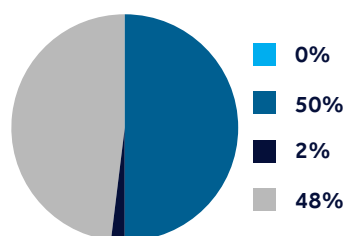
Elite MCYP[®]



Verapamil



Diclofenac

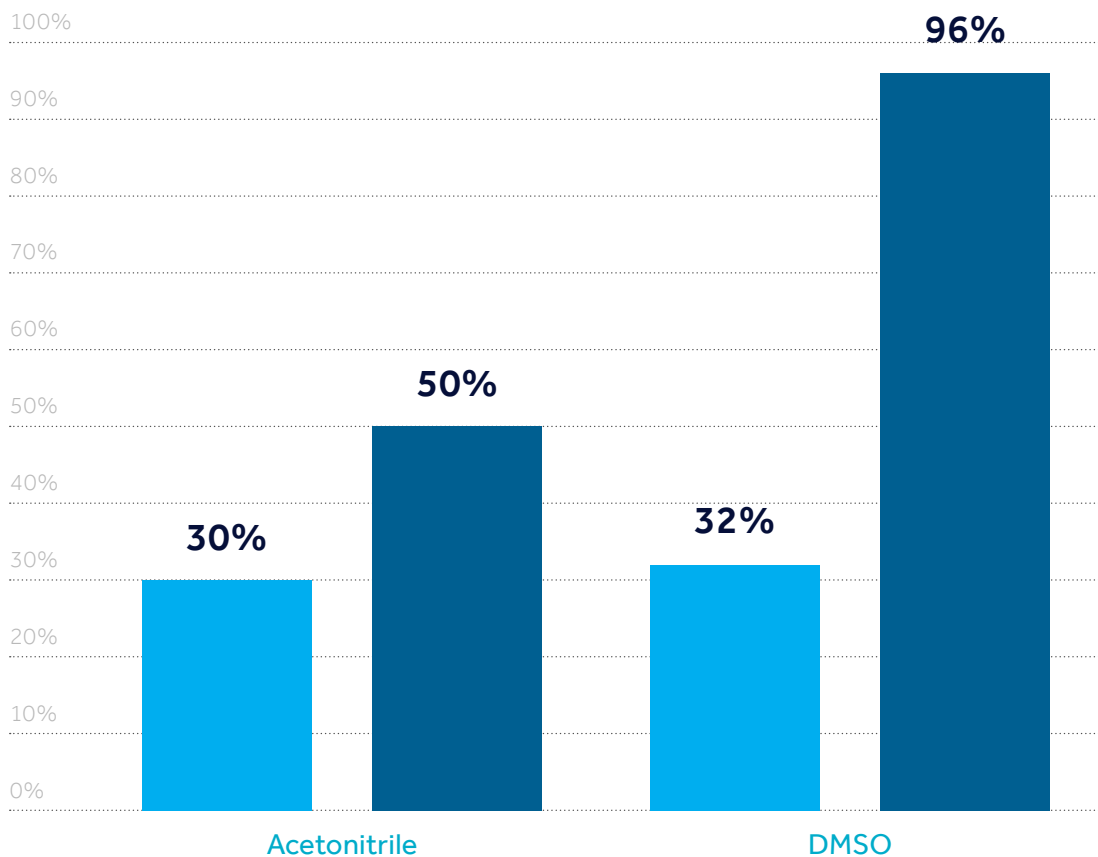


■ Product 1
■ Product 2
■ Product 3
■ Substrate

Experiment conditions: 2mM substrate in 5% DMSO, 1 U_M MCYP[®], 4 hour reaction at 30°C with 300 RPM mixing. Reaction quenched with acetonitrile prior to LCMS analysis.

Codex MicroCyp Enzymes

Comparison data of Standard MCYP® and Elite MCYP®

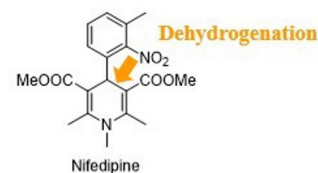
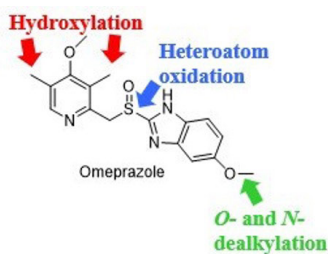
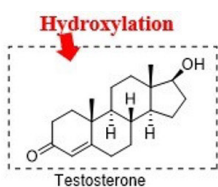


Experiment conditions: 2 mM diclofenac in 10% DMSO or Acetonitrile, 1 μ M MCYP®, 4 hour reaction at 30°C with 300 RPM mixing. Reactions quenched with acetonitrile prior to LCMS analysis. Note - conversion in 5% solvent was used as the baseline to calculate residual activity (ie. 5% DMSO has 100% residual activity)

■ Standard MCYP®

■ Elite MCYP®

Reactivity Examples



Codex MicroCyp Enzymes

Product Offering

We offer two MCYP® kits including follow-on quantities of every enzyme in the kit for rapid scale-up.

Item	Enzyme	Amount
Catalog #	MCYP-0363 KIT	MCYP-0361 KIT
Format (# of enzymes per kit)	11	23
Enzyme concentration (µM per well)	6	6
# of screens per kit	2	1

For any other questions or further information,
feel free to contact us at sales@codexis.com