

HiCultS9 | Cultivated human S9 fraction

Certificate of analysis | Lot: S09102bAOX

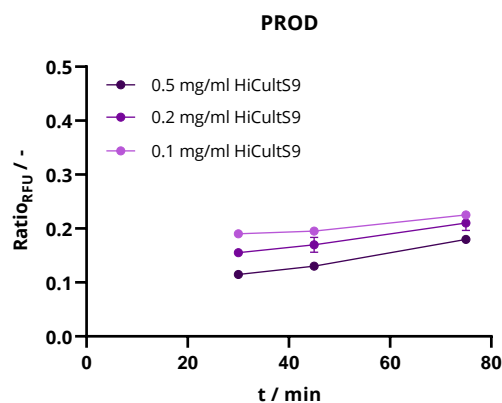
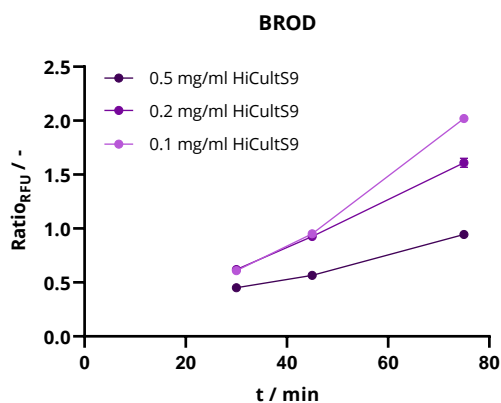
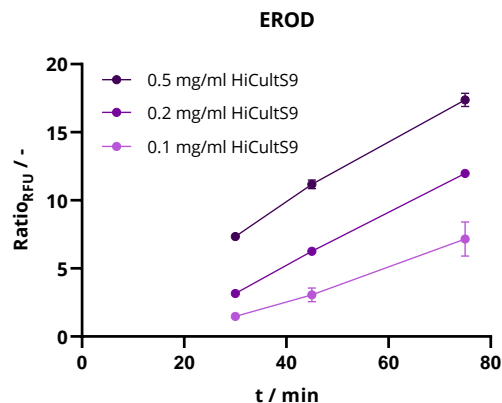
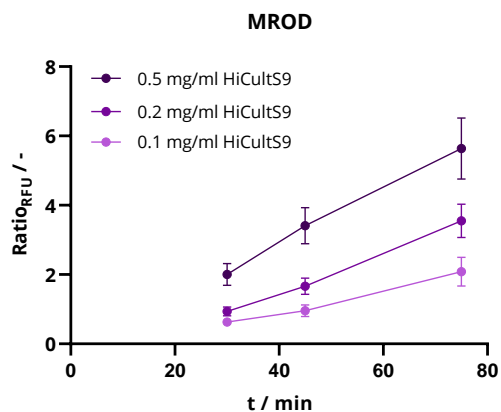
HiCultS9 is a human in vitro metabolism agent produced in a proprietary process and under animal-free conditions. The content of a vial is reconstituted in 1.0 ml sterile, distilled water.

Appearance

Colour:	brownish white lyophilisate	(passed)
Sterility:	sterile	(passed)
After reconstitution:	milky emulsion	(passed)

Enzymatic activities

The assays were performed in 100 mM NaPO₄ buffer pH 7.4 using 15 mM glucose-6-phosphate, 5 mM MgCl₂, 3 mM NADP and 150 μM dicoumarol at 34-37 °C, 750 rpm (1.5 mm amplitude) (two technical replicates).



Induced estrogenic activity | Cell-based assay

The cell-based assay was performed in SciNQX2 containing 15 mM glucose-6-phosphate, 5 mM MgCl₂, 3 mM NADP as well as 0.1 mg/ml HiCultS9 using the proprietary estrogenic reporter suspension cell line CHO_{sulu}-ER α at 37 °C and 5 % CO₂ (eight technical replicates; PP plates). The formation of the secreted luciferase upon binding to the human estrogen receptor alpha after metabolism of benzo(a) pyrene (B[a]P) was measured after incubating for 22 hours.

