PRIMACYT
Cell Culture Technology

Characterization of Human Liver Microsomes – CYP P450 activity studies

Human Liver Microsomes (20 µg/assay) were incubated with luminogenic CYP P450 substrates and an NADPH regenerating system. The luminogenic substrates are converted to luciferin, which is detected in a second reaction with the luciferin detection agent. The amount of light produced in this reaction ist proportional to the activity of the Cytochrom P450.

Tab. 1 Luminescence results (in light units):

				For comparison:		
	PRIMACYT 01	PRIMACYT 02		BD 452037	BD 452074	BD 452093
CYP 1A2	39.461	41.825		101.261	70.392	80.268
CYP 2C9	239.926	503.073		147.487	125.036	84.751
CYP 2C19	35.931	90.069		69.507	115.837	56.409
CYP 2D6	53.398	72.838		64.894	84.524	96.072
CYP 3A4	73.368	43.936		7.933	9.399	39.336

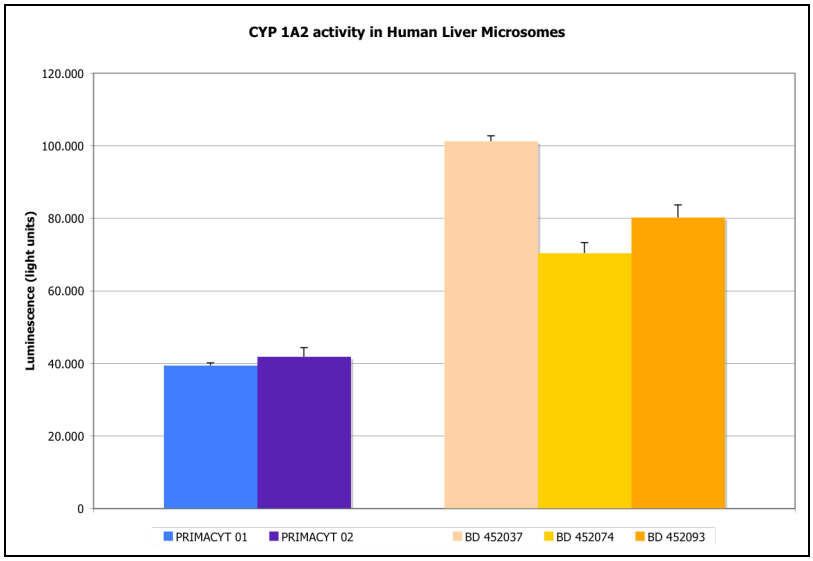

Fig. 1: CYP 1A2 activities

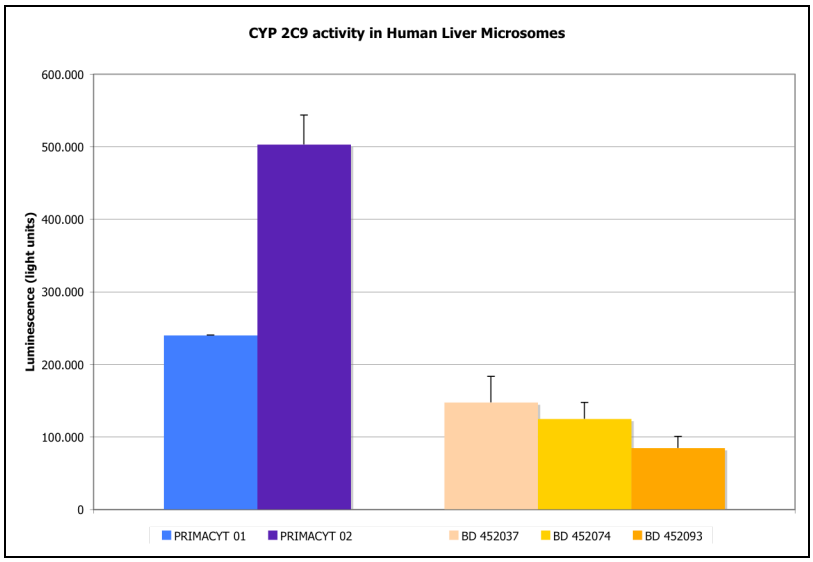

Fig. 2: CYP 2C9 activities

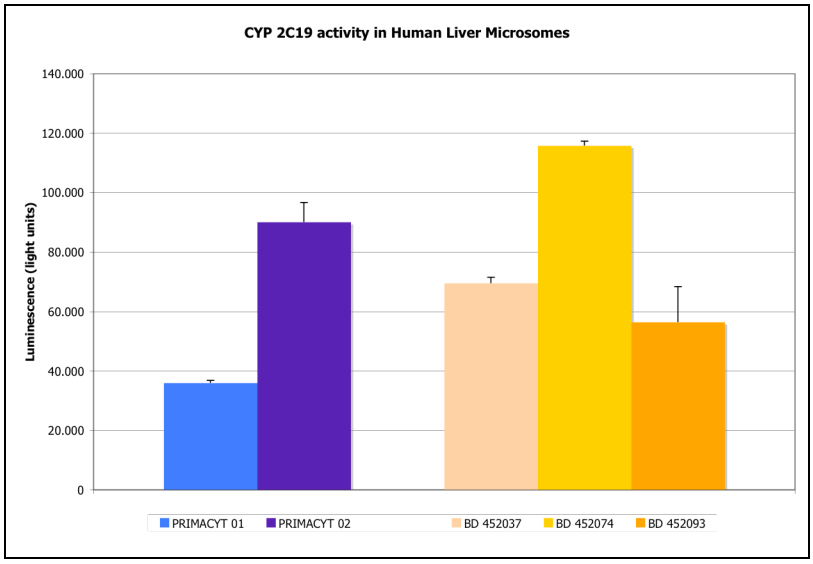

Fig. 3: CYP 2C19 activities

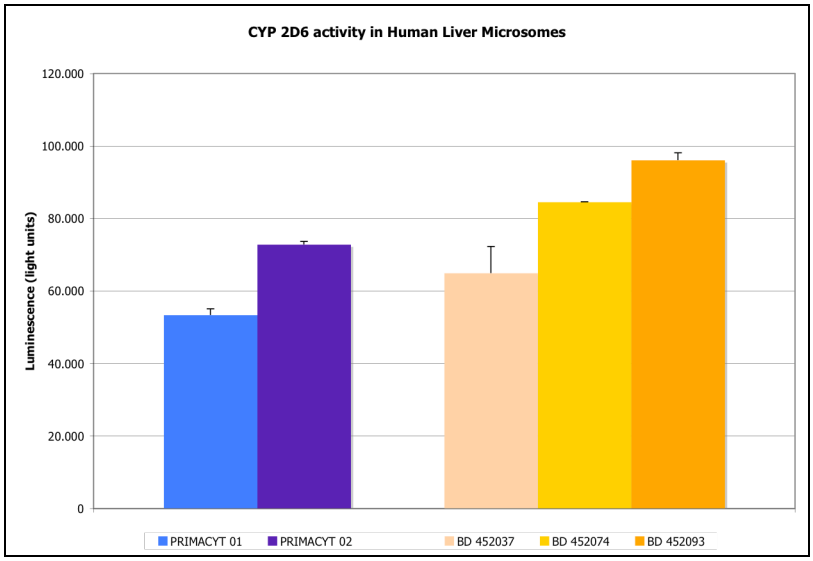

Fig. 4: CYP 2D6 activities

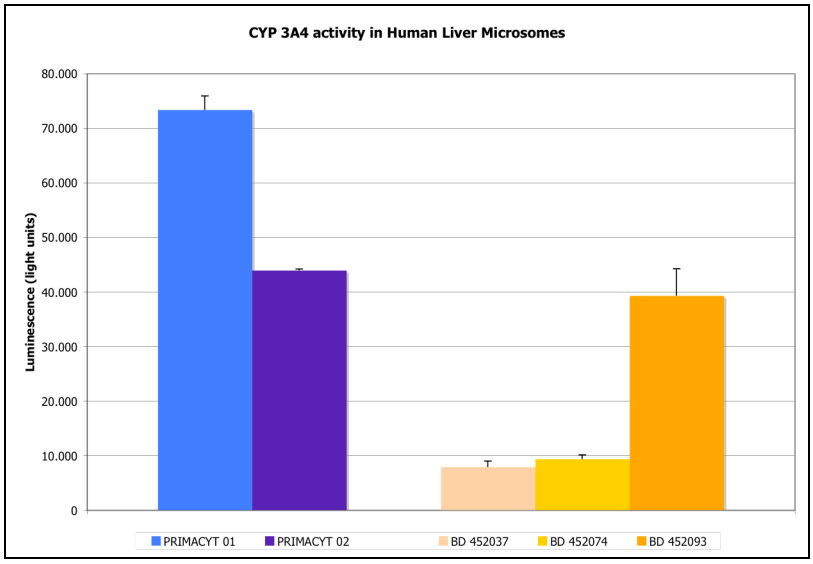

Fig. 5: CYP 3A4 activities