

Table 1. Kinetic values of purified and displayed G6PDH.

	K_M NADP (mM)	K_M G6P (mM)	V_{max} (μ M/min)	K_{cat}^a (s^{-1})	Specific activity (U/g CDW)
Purified G6PDH	0.127 ± 0.05	0.224 ± 0.06	17.5 ± 1.0	32.5 ± 1.3	–
Whole cell biocatalyst displaying G6PDH (OD_{578} 0.5)	0.180 ± 0.05	1.51 ± 0.69	17.9 ± 0.6	19.4 ± 0.7	102.9 ± 7.9
Lyophilized whole cell biocatalyst displaying G6PDH (OD_{578} 0.5)	0.222 ± 0.08	3.13 ± 0.23	82.8 ± 1.9	49.5 ± 10.2	161.2 ± 3.7

^aEstimated for $OD_{578} = 7 \times 10^8$ cells per mL and 2.6×10^4 displayed enzymes per cell. See results section for details.