



STRUCTURAL BIOLOGY
COMMUNICATIONS

Volume 72 (2016)

Supporting information for article:

Improved purification, crystallization and crystallographic study of Hyd-2-type [NiFe]-hydrogenase from *Citrobacter* sp. S-77

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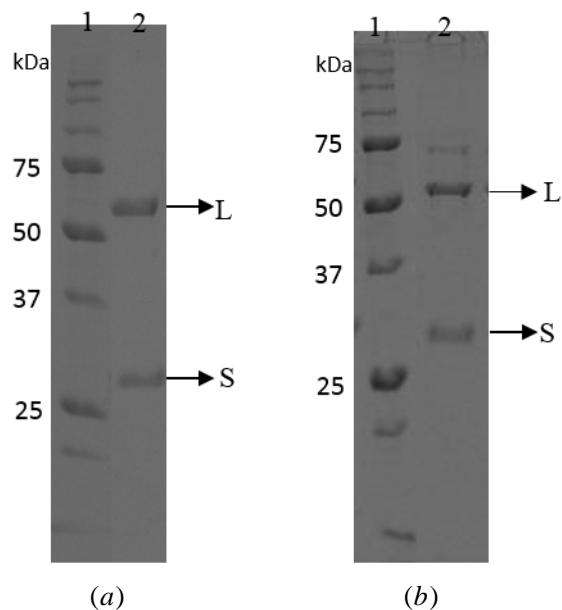


Figure S1 SDS-PAGE analysis of the purified protein samples. (a) HYD2-s77 with trypsin treatment and (b) HYD2-s77 without trypsin treatment. SDS -PAGE analysis was done using 13% acrylamide. Lane 1, standard marker protein; lane 2, the purified HYD2 -s77. Large and small subunits of HYD2-s77 are shown by L (ca. 58.4 kDa) and S (ca. 35.0 kDa), respectively.

Table S1 Reactivation times and O₂ tolerance indexes for each condition for MBH -mar, HYD2 -s77 and STD-dvm.

Amount of O ₂ (nmol)	MBH-mar		HYD2-s77		STD-dvm	
	Reactivation time (s)	O ₂ tolerance index † (min ⁻¹)	Reactivation time (s)	O ₂ tolerance index † (min ⁻¹)	Reactivation time (s) ¶	O ₂ tolerance index †, ¶ (min ⁻¹)
0.0	52	115.4	40	150.00	17	353
4.2	50	120.0	128	46.9	nd	nd
8.4	61	98.4	293	20.5	nd	nd
12.6	64	93.8	351	17.1	nd	nd
31.5	418	14.4	2458	2.44	nd	nd
63.0	723	8.30	4481	1.34	nd	nd

† (reactivation time (s)/60)⁻¹ ×100

¶ not determined