

## Additional file 2 – Time course pH measurements

Average pH values with standard deviations of triplicate cultures containing 2.5, 5, 10, and 30

mM HCO<sub>3</sub><sup>-</sup> as the sole buffer and a combination of HCO<sub>3</sub><sup>-</sup> and HEPES. The values in bold are the final pH measurements.

Day	[HCO <sub>3</sub> <sup>-</sup> ] mM							
	2.5	2.5 & HEPES	5	5 & HEPES	10	10 & HEPES	30	30 & HEPES
0	7.49 ± 0.06	7.48 ± 0.08	7.47 ± 0.05	7.51 ± 0.07	7.54 ± 0.05	7.46 ± 0.04	7.44 ± 0.03	7.43 ± 0.03
1	7.41 ± 0.07	7.43 ± 0.08	7.45 ± 0.07	7.51 ± 0.04	7.56 ± 0.03	7.45 ± 0.06	7.45 ± 0.09	7.50 ± 0.02
7	7.23 ± 0.05	7.38 ± 0.09	7.37 ± 0.06	7.44 ± 0.09	7.66 ± 0.18	7.47 ± 0.06	7.56 ± 0.07	7.58 ± 0.03
17	7.29 ± 0.03	7.26 ± 0.12	7.36 ± 0.03	7.48 ± 0.12	7.87 ± 0.11	7.53 ± 0.04	7.60 ± 0.11	7.60 ± 0.03
19	–	7.58 ± 0.01	–	<b>7.61 ± 0.09</b>	–	–	–	–
20	–	–	–		–	–	–	–
23	7.81 ± 0.06	–	7.92 ± 0.09		8.12 ± 0.11	–	–	–
26	–	<b>7.62 ± 0.09</b>	–		–	7.64 ± 0.01	7.68 ± 0.09	7.65 ± 0.01
28	–		–		–	<b>7.76 ± 0.05</b>	–	–
32	<b>7.97 ± 0.20</b>		–		–		–	<b>7.80 ± 0.04</b>
35			<b>8.55 ± 0.20</b>		8.73 ± 0.10		8.07 ± 0.19	
40					<b>8.71 ± 0.19</b>		<b>8.13 ± 0.17</b>	