## S1 Table. Effect of oxygen on the formation of ribose 5 phosphate.

SI	Reagents*	Ratio of R5P concentration formed under aerobic vs. anaerobic environment
1	400 μM 6PG, 150μM Fe <sup>2+</sup> and 150μM Cys	3.05
2	400 μM 6PG and 150μM Cys	1.11
3	$400~\mu M$ 6PG and $150\mu M$ $Fe^{2^{+}}$	2.5
4	400 μM 6PG alone	1

<sup>\*</sup> Reagents were dissolved in phosphate solution 50 mM pH 5.0. The reaction mixture was heated at 70 °C for 3h under respective environments (ambient or anaerobic chamber). 6PG: 6-phosphogluconate, R5P: ribose 5-phosphate.