

Supplementary table 1: Representative Media pH, pCO₂ and pO₂ measurements

	Sample	pH	pCO₂ (mmHg)	pO₂ (mmHg)
5% CO₂	DMEM Start	7.30	40.3	141.4
	DMEM End	7.30	38.5	142.2
	THP-1 (DMEM)	7.29	38	148
	THP-1 (DMEM +LPS)	7.27	40.5	146.3
10% CO₂	DMEM Start	7.36	78.8	139
	DMEM End	7.36	75.8	140.7
	THP-1 (DMEM)	7.36	76	143.9
	THP-1 (DMEM +LPS)	7.36	78.7	144

Supplementary table 1: Representative media pH, pCO₂ and pO₂ measurements in DMEM media at the start and end of a 4hr experiment (without cells) in DMEM media taken from THP-1 cells exposed to 5% or 10% CO₂ (4 h) ± LPS (2 h) at the end of the experiment using a RAPIDPoint 500 blood gas analyser (Siemens). Media composition is specifically designed to have slightly more alkaline pH at 10% CO₂ to exclude the possibility of having acidosis co-incident with hypercapnia (10% CO₂).