

Supplementary Table 1

Physiological parameters during cerebral ischemia reperfusion

preischemia							ischemia						
0% H ₂							0% H ₂						
No.	temp. (°C)	pH	pCO ₂	pO ₂	glucose (mg/dl)	pressure (mmHg)	No.	temp. (°C)	pH	pCO ₂	pO ₂	glucose (mg/dl)	pressure (mmHg)
1	37.4	7.47	39	107	120	110	1	37.4	7.42	44	89	130	145
2	37.5	7.39	51	113	114	95	2	37.1	7.40	51	98	117	120
3	37.5	7.47	43	109	119	108	3	37.4	7.44	47	115	115	130
4	37.4	7.46	43	134	120	110	4	37.0	7.42	48	119	117	150
5	37.1	7.44	40	109	103	110	5	37.5	7.42	42	113	105	150
6	37.2	7.45	39	125	110	120	6	37.5	7.44	41	112	105	153
Average	37.4	7.45	43	116	114	109	Average	37.3	7.42	46	108	115	141
S.D.	0.2	0.03	5	11	7	8	S.D.	0.2	0.02	4	12	9	13
2% H ₂							2% H ₂						
1	37.1	7.45	46	130	109	105	1	37.3	7.41	48	111	120	120
2	37.4	7.44	50	118	104	87	2	37.6	7.43	43	99	97	135
3	37.7	7.40	46	105	114	103	3	37.8	7.42	45	104	100	150
4	36.9	7.45	47	121	107	100	4	37.0	7.39	52	97	105	150
5	37.5	7.46	41	120	109	100	5	37.3	7.41	45	109	107	145
6	37.0	7.46	45	114	107	115	6	37.5	7.42	47	108	113	160
Average	37.3	7.44	46	118	108	102	Average	37.4	7.41	47	105	107	143
S.D.	0.3	0.02	3	8	3	9	S.D.	0.3	0.01	3	6	8	14
4% H ₂							4% H ₂						
1	37.6	7.48	36	118	113	120	1	37.0	7.40	48	110	105	145
2	37.2	7.45	40	134	96	112	2	36.8	7.40	46	107	94	120
3	37.6	7.46	43	119	90	125	3	37.0	7.41	47	83	91	130
4	36.7	7.46	39	128	103	120	4	37.6	7.43	43	111	97	145
5	36.8	7.43	45	111	97	120	5	37.4	7.45	44	105	100	140
6	37.5	7.49	34	127	103	100	6	37.4	7.44	46	110	105	150
Average	37.2	7.46	40	123	100	116	Average	37.2	7.42	46	104	99	138
S.D.	0.4	0.02	4	8	8	9	S.D.	0.3	0.02	0	11	6	11

reperfusion for 15 min							reperfusion for 30 min						
0% H ₂							0% H ₂						
No.	temp. (°C)	pH	pCO ₂	pO ₂	glucose (mg/dl)	pressure (mmHg)	No.	temp. (°C)	pH	pCO ₂	pO ₂	glucose (mg/dl)	pressure (mmHg)
1	37.3	7.39	45	101	132	155	1	37.5	7.41	41	110	135	140
2	37.2	7.40	52	94	108	135	2	37.4	7.40	49	97	111	130
3	37.3	7.46	44	105	113	135	3	37.0	7.40	51	109	115	118
4	37.5	7.43	46	119	116	153	4	37.5	7.42	46	99	118	135
5	37.2	7.40	44	122	104	155	5	37.1	7.43	40	134	105	130
6	37.7	7.41	43	107	105	140	6	37.7	7.35	50	93	97	110
Average	37.4	7.42	46	108	113	146	Average	37.4	7.40	46	107	114	127
S.D.	0.2	0.03	3	11	10	10	S.D.	0.3	0.03	5	15	13	11
2% H ₂							2% H ₂						
1	37.5	7.42	42	107	120	120	1	37.4	7.39	45	116	115	100
2	37.5	7.41	45	98	100	95	2	37.4	7.43	42	97	103	90
3	37.2	7.40	46	109	111	150	3	37.0	7.38	48	117	112	150
4	37.4	7.39	49	100	110	108	4	37.3	7.36	53	109	110	110
5	37.3	7.40	45	108	107	130	5	37.5	7.37	46	119	107	95
6	37.1	7.39	49	113	105	130	6	37.2	7.38	51	115	109	125
Average	37.3	7.40	46	106	109	122	Average	37.3	7.39	48	112	109	112
S.D.	0.2	0.01	3	6	7	19	S.D.	0.18	0.02	4	8	4	23
4% H ₂							4% H ₂						
1	37.4	7.39	49	103	111	140	1	37.1	7.43	37	142	107	125
2	37.3	7.36	49	93	96	120	2	37.4	7.29	41	133	96	112
3	37.4	7.39	46	90	92	135	3	37.5	7.39	47	93	90	135
4	37.4	7.41	45	113	96	145	4	37.4	7.39	45	134	100	130
5	37.1	7.43	45	107	98	140	5	37.1	7.40	44	138	100	125
6	37.3	7.42	44	120	97	150	6	37.1	7.40	47	143	94	140
Average	37.3	7.40	46	104	98	138	Average	37.3	7.38	44	131	98	128
S.D.	0.12	0.03	2	12	7	10	S.D.	0.19	0.05	4	19	6	10