

**Lactobacilli-fermented cow's milk attenuated lipopolysaccharide-induced
neuroinflammation and memory impairment *in vitro* and *in vivo***

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SUPPLEMENTARY FILE

Supplementary Table S1

Group	Nitric oxide (%)		Viability (%)
	24h	48h	
BV2	10 ± 1.1	6 ± 0.9	-
LPS	100 ± 1.7 [#]	100 ± 2.0 [#]	100 ± 1.6
L-NAME	39 ± 3.4 [*]	46 ± 1.5 [*]	120 ± 2.0
UCM (5%)	121 ± 2.1	117 ± 2.3	95 ± 2.4
UCM (10%)	120 ± 3.2	120 ± 2.5	101 ± 3.5
UCM (15%)	122 ± 3.7	125 ± 1.5	94 ± 2.4
UCM (20%)	98 ± 2.5	103 ± 0.9	111 ± 3.6
CFS-CM-LAB 1 (5%)	139 ± 2.2	158 ± 2.5	101 ± 3.0
CFS-CM-LAB 1 (10%)	138 ± 2.5	146 ± 1.5	112 ± 3.5
CFS-CM-LAB 1 (15%)	101 ± 1.9	131 ± 3.4	102 ± 3.8
CFS-CM-LAB 1 (20%)	89 ± 2.1	113 ± 1.3	105 ± 2.7
CFS-CM-LAB 9 (5%)	83 ± 3.4	96 ± 1.0	112 ± 2.8
CFS-CM-LAB 9 (10%)	58 ± 2.3 [^]	88 ± 2.6	115 ± 2.9
CFS-CM-LAB 9 (15%)	51 ± 3.1 [^]	77 ± 2.5 [^]	112 ± 1.3
CFS-CM-LAB 9 (20%)	21 ± 1.2 ^{*,^}	45 ± 2.5 ^{*,^}	110 ± 3.0
CFS-CM-LAB 10 (5%)	79 ± 3.8	109 ± 3.7	106 ± 2.6
CFS-CM-LAB 10 (10%)	77 ± 1.2	101 ± 2.3	106 ± 2.6
CFS-CM-LAB 10 (15%)	73 ± 2.9 [^]	92 ± 1.7	104 ± 2.5
CFS-CM-LAB 10 (20%)	56 ± 3.0	68 ± 1.8	112 ± 3.2
CFS-CM-LAB 11 (5%)	139 ± 2.9	152 ± 3.5	101 ± 3.5
CFS-CM-LAB 11 (10%)	98 ± 1.9	107 ± 2.6	105 ± 2.8
CFS-CM-LAB 11 (15%)	78 ± 3.1	92 ± 3.4	110 ± 2.1
CFS-CM-LAB 11 (20%)	49 ± 1.9	66 ± 1.2	110 ± 2.2
CFS-CM-LAB 12 (5%)	100 ± 1.2	107 ± 2.6	100 ± 1.0
CFS-CM-LAB 12 (10%)	118 ± 3.1	124 ± 1.9	103 ± 2.3
CFS-CM-LAB 12 (15%)	121 ± 3.1	126 ± 2.7	95 ± 2.8
CFS-CM-LAB 12 (20%)	96 ± 2.7	129 ± 2.4	105 ± 3.4
CFS-CM-LABPC (5%)	101 ± 3.0	121 ± 0.9	104 ± 2.5
CFS-CM-LABPC (10%)	64 ± 3.3 [^]	107 ± 2.3	122 ± 1.2
CFS-CM-LABPC (15%)	41 ± 2.7 ^{*,^}	60 ± 3.0 ^{*,^}	123 ± 2.4
CFS-CM-LABPC (20%)	17 ± 2.2 ^{*,^}	28 ± 1.9 ^{*,^}	129 ± 2.6

NO inhibition by CFS from lactobacilli (LAB)-fermented cow's milk in activated BV2 cells. The CFS-induced NO inhibition, which occurred in a dose-dependent manner (% nitric oxide), was independent of cytotoxicity (% viability). BV2: untreated BV2 cells; UCM: unfermented cow's milk (vehicle control); CFS-CM-LAB: cell free supernatant from LAB-fermented cow's milk; CFS: cell-free; cow's milk; supernatant; CM NO: nitric oxide; LPS: lipopolysaccharides. Percentage was normalised to that of the control of LPS-activated BV2 cells. Data represent mean \pm SEM (n = 3). # $P < 0.05$ when compared with control BV2 group; * $P < 0.05$ when compared with LPS control, ^ $P < 0.05$ when compared with UCM.