

Table S1. Lung injury score from individual animal

Group	Animal	Parameters							Total score
		A	B	C	D	E	F	G	
Control	#1	1	1	1	0	1	1	1	6
	#2	2	2	1	2	3	2	1	13
	#3	3	3	2	1	1	1	2	13
Surfactant	#1	0	0	0	1	0	0	0	1
	#2	0	1	1	1	1	1	0	5
	#3	1	2	1	1	1	1	1	8
	#4	2	2	0	1	0	1	1	7
p		0.08	0.18	0.06	0.50	0.07	0.11	0.06	<0.05

Table S2. Cytokine data (Plasma)

	Post-Lavage		P value (Control vs Surfactant)	END		P value (Control vs Surfactant)	P value (Post-Lavage vs END)	
	Control	Surfactant		Control	Surfactant		Control	Surfactant
GM-CSF	-0.20 ± 0.09	0.08 ± 0.13	0.84	0.95 ± 0.83	-0.27 ± 0.12	0.08	0.13	0.73
IFN-γ	0.14 ± 0.28	0.80 ± 0.25	0.40	1.75 ± 0.70	0.14 ± 0.17	0.02	0.03	0.35
IL-1α	-0.06 ± 0.04	0.03 ± 0.03	0.67	-0.10 ± 0.16	-0.06 ± 0.04	0.95	0.94	0.61
IL-1β	0.21 ± 0.22	0.18 ± 0.11	>0.99	0.61 ± 0.52	0.05 ± 0.02	0.25	0.52	0.90
IL-1ra	4.02 ± 2.20	14.26 ± 4.05	0.65	54.80 ± 17.86	9.92 ± 4.59	0.01	0.005	0.91
IL-2	-0.01 ± 0.03	0.04 ± 0.04	0.91	0.02 ± 0.19	-0.08 ± 0.06	0.73	0.97	0.58
IL-4	0.002 ± 0.07	0.12 ± 0.05	0.59	-0.21 ± 0.13	-0.11 ± 0.09	0.68	0.25	0.13
IL-6	0.56 ± 0.28	0.10 ± 0.04	0.44	1.70 ± 0.55	0.005 ± 0.06	0.002	0.03	0.95
IL-8	-0.06 ± 0.05	0.02 ± 0.13	0.90	0.32 ± 0.14	-0.12 ± 0.16	0.09	0.18	0.70
IL-10	0.14 ± 0.17	0.03 ± 0.04	0.73	-0.17 ± 0.15	-0.07 ± 0.06	0.79	0.16	0.71
IL-12	-0.06 ± 0.03	0.06 ± 0.03	0.52	0.11 ± 0.17	-0.02 ± 0.04	0.44	0.32	0.69
IL-18	0.01 ± 0.02	0.09 ± 0.06	0.78	-0.08 ± 0.16	-0.22 ± 0.07	0.49	0.73	0.04
TNF-α	-0.06 ± 0.13	0.43 ± 0.46	0.61	0.29 ± 0.46	-0.03 ± 0.27	0.80	0.80	0.60

GM-CSF, Granulocyte-macrophage colony-stimulating factor; IFN-γ, Interferon-gamma; IL, Interleukin; IL-1ra, IL-1 receptor antagonist; TNF-α, Tumor necrosis factor-alpha. Data is standardized by pre-lavage data. Data is mean ± SEM

Table S3. Cytokine data (Lung tissue)

(pg/mg lung protein)	Control	Surfactant	p
GM-CSF	11.2 ± 5.5	9.7 ± 3.8	0.41
IFN-γ	68.7 ± 30.2	36.5 ± 30.8	0.25
IL-1α	48.0 ± 24.7	14.0 ± 3.6	0.08
IL-1β	2704 ± 1558	827 ± 279	0.11
IL-1ra	1689 ± 644	971 ± 510	0.21
IL-2	1.9 ± 0.4	1.6 ± 0.4	0.29
IL-4	2.5 ± 0.5	1.8 ± 0.1	0.08
IL-6	84.8 ± 76.4	27.1 ± 9.6	0.21
IL-8	511 ± 340	130 ± 33	0.12
IL-10	2.1 ± 0.5	1.2 ± 0.1	0.052
IL-12	46.1 ± 15.4	27.1 ± 8.6	0.15
IL-18	524 ± 150	534 ± 76	0.48
TNF-α	4.4 ± 4.4	0.9 ± 0.9	0.20

GM-CSF, Granulocyte-macrophage colony-stimulating factor; IFN-γ, Interferon-gamma; IL, Interleukin; IL-1ra, IL-1 receptor antagonist; TNF-α, Tumor necrosis factor-alpha. Data is mean ± SEM.

Table S4. Cytokine data (Bronchoalveolar lavage fluid)

(pg/mL)	Control	Surfactant	p
GM-CSF	111.3 ± 36.3	83.6 ± 5.7	0.21
IFN-γ	686.1 ± 308.0	358.5 ± 118.2	0.16
IL-1α	1249.0 ± 753.6	97.2 ± 42.6	0.06
IL-1β	36192 ± 10172	10064 ± 4642	0.03
IL-1ra	10240 ± 7034	2959 ± 1045	0.14
IL-2	39.9 ± 11.4	28.7 ± 6.8	0.21
IL-4	10.3 ± 0.7	8.1 ± 1.1	0.10
IL-6	677.4 ± 423.2	517.3 ± 174.9	0.36
IL-8	13471 ± 8063	3143 ± 1330	0.10
IL-10	38.0 ± 25.4	8.6 ± 2.5	0.12
IL-12	378.9 ± 27.7	123.5 ± 44.3	0.003
IL-18	1804 ± 1029	512 ± 135	0.10
TNF-α	0.103 ± 0.023	0.048 ± 0.005	0.02
IL-1α / IL-1ra	0.140 ± 0.016	0.040 ± 0.011	0.001
IL-1β / IL-1ra	6.3 ± 2.2	3.1 ± 0.4	0.08
Divided by total protein			
(pg/mg)			
GM-CSF	106.3 ± 40.1	192.3 ± 73.3	0.20
IFN-γ	639.4 ± 287.0	730.1 ± 358.9	0.43
IL-1α	959.1 ± 354.9	147.8 ± 53.3	0.02
IL-1β	42647 ± 25005	14349 ± 6008	0.13
IL-1ra	6789 ± 2193	5307 ± 2903	0.36
IL-2	62.1 ± 46.3	82.5 ± 40.1	0.38
IL-4	12.9 ± 7.1	17.8 ± 6.5	0.32
IL-6	411.8 ± 64.6	898.4 ± 319.4	0.13
IL-8	8796 ± 1333	6104 ± 3398	0.27
IL-10	22.6 ± 4.9	14.2 ± 2.9	0.09
IL-12	469.6 ± 253.2	199.8 ± 81.8	0.15
IL-18	1434.8 ± 535.1	922.9 ± 259.1	0.19
TNF-α	0.13 ± 0.08	0.10 ± 0.04	0.39

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