

**Supplementary Table S3** - Fungal cell equivalents (CE) per milliliter (ml) of bronchoalveolar lavage fluid (BALF) or milligram (mg) of barn dust for the 36 fungi.

	CE /ml of BALF sample				Stabling effect	Group effect	CE/mg of barn dust
	Healthy		Equine asthma				
	Pasture	Barn	Pasture	Barn			
	mean $\pm$ SD				p value		
<b>Group 1</b>							
<i>Eurotium amstelodami</i>	1 $\pm$ 1	2.2 $\pm$ 2.9 $\times 10^4$	1 $\pm$ 2	1.1 $\pm$ 1.5 $\times 10^3$	<0.001	0.015	1.9 $\pm$ 0.9 $\times 10^5$
<i>Wallemia sebi</i>	2 $\pm$ 4	3.8 $\pm$ 6.2 $\times 10^2$	2 $\pm$ 3	1.1 $\pm$ 1.6 $\times 10^2$	<0.001	NS*	1.0 $\pm$ 0.2 $\times 10^5$
<i>Aspergillus niger</i>	0 $\pm$ 0	4.7 $\pm$ 9.5 $\times 10^2$	0 $\pm$ 0	0.5 $\pm$ 1.0 $\times 10^2$	<0.001	NS	1.3 $\pm$ 0.2 $\times 10^2$
<i>Aspergillus fumigatus</i>	0 $\pm$ 0	11 $\pm$ 17	0 $\pm$ 0	18 $\pm$ 30	–	–	3.9 $\pm$ 1.7 $\times 10^2$
<i>Aspergillus penicillioides</i>	0 $\pm$ 0	5 $\pm$ 4	1 $\pm$ 2	1 $\pm$ 3	–	–	3.6 $\pm$ 0.8 $\times 10^2$
<i>Penicillium brevicompactum</i>	0 $\pm$ 0	18 $\pm$ 5	0 $\pm$ 0	1 $\pm$ 1	–	–	3.7 $\pm$ 0.9 $\times 10^3$
<i>Aspergillus flavus</i>	0 $\pm$ 0	3 $\pm$ 5	0 $\pm$ 0	0 $\pm$ 1	–	–	53 $\pm$ 11
<i>Scopulariopsis brevicaulis</i>	0 $\pm$ 0	3 $\pm$ 2	0 $\pm$ 0	0 $\pm$ 1	–	–	6.9 $\pm$ 2.1 $\times 10^2$
<i>Scopulariopsis chartarum</i>	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 1	–	–	17 $\pm$ 6
<i>Aspergillus ochraceus</i>	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	–	–	0 $\pm$ 1
<i>Aspergillus restrictus</i>	0 $\pm$ 0	5 $\pm$ 10	0 $\pm$ 0	0 $\pm$ 0	–	–	3.5 $\pm$ 1.3 $\times 10^2$
<i>Aspergillus sclerotiorum</i>	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	–	–	1 $\pm$ 1
<i>Aspergillus sydowii</i>	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	–	–	16 $\pm$ 4
<i>Aspergillus unguis</i>	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	–	–	0 $\pm$ 0
<i>Aspergillus versicolor</i>	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	–	–	1.2 $\pm$ 0.5 $\times 10^2$
<i>Aureobasidium pullulans</i>	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	–	–	2.2 $\pm$ 0.2 $\times 10^3$
<i>Chaetomium globosum</i>	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	–	–	1 $\pm$ 1
<i>Cladosporium sphaerospermum</i>	2 $\pm$ 2	1 $\pm$ 1	1 $\pm$ 3	0 $\pm$ 0	–	–	68 $\pm$ 45
<i>Paecilomyces variotii</i>	0 $\pm$ 0	1 $\pm$ 1	0 $\pm$ 0	0 $\pm$ 0	–	–	14 $\pm$ 2

<i>Penicillium corylophilum</i>	0 ± 0	1 ± 3	0 ± 0	0 ± 0	–	–	7.2 ± 0.6 x 10 <sup>2</sup>
<i>Penicillium crustosum</i>	0 ± 0	10 ± 12	0 ± 0	0 ± 0	–	–	1.2 ± 0.1 x 10 <sup>4</sup>
<i>Penicillium purpurogenum</i>	0 ± 0	0 ± 0	0 ± 0	0 ± 0	–	–	0 ± 0
<i>Penicillium spinulosum</i>	0 ± 0	0 ± 0	0 ± 0	0 ± 0	–	–	23 ± 5
<i>Penicillium variabile</i>	0 ± 0	0 ± 0	0 ± 0	0 ± 0	–	–	50 ± 21
<i>Stachybotrys chartarum</i>	0 ± 0	0 ± 0	0 ± 0	0 ± 0	–	–	0 ± 0
<i>Trichoderma viride</i>	0 ± 0	0 ± 0	0 ± 0	0 ± 0	–	–	24 ± 9
<b>Group 2</b>							
<i>Cladosporium herbarum</i>	11 ± 8	8 ± 7	9 ± 13	3 ± 3	–	–	6.3 ± 0.9 x 10 <sup>4</sup>
<i>Mucor</i> species	0 ± 0	1.7 ± 2.7 x 10 <sup>2</sup>	0 ± 0	1 ± 2	< 0.001	<0.001	1.0 ± 0.3 x 10 <sup>3</sup>
<i>Rhizopus stolonifer</i> Type 2	0 ± 0	2.0 ± 3.7 x 10 <sup>2</sup>	0 ± 0	1 ± 3	< 0.001	<0.001	3.6 ± 1.3 x 10 <sup>3</sup>
<i>Penicillium chrysogenum</i>	1 ± 1	3 ± 4	0 ± 0	1 ± 3	–	–	5 ± 2
<i>Epicoccum nigrum</i>	0 ± 1	0 ± 0	0 ± 0	1 ± 2	–	–	1.1 ± 0.1 x 10 <sup>4</sup>
<i>Cladosporium cladosporioides</i> Type 1	3 ± 2	0 ± 1	2 ± 2	0 ± 1	–	–	8.2 ± 1.3 x 10 <sup>3</sup>
<i>Acremonium strictum</i>	1 ± 3	0 ± 0	0 ± 0	0 ± 0	–	–	2.1 ± 0.3 x 10 <sup>3</sup>
<i>Alternaria alternata</i>	0 ± 0	0 ± 0	0 ± 0	0 ± 0	–	–	9.9 ± 2.9 x 10 <sup>2</sup>
<i>Aspergillus ustus</i>	0 ± 0	0 ± 0	0 ± 0	0 ± 0	–	–	0 ± 0
<i>Cladosporium cladosporioides</i> Type 2	0 ± 0	0 ± 1	0 ± 0	0 ± 0	–	–	78 ± 37

\* NS= not significant