

Dog #	Microbial culture Good - Fall 2022	Microbial culture Good – Spring 2023	Microbial culture Moderate – Fall 2022	Microbial culture Unhealthy (smoke) – Spring 2023
1	No growth	No growth	No growth	No growth
2	<i>Staphylococcus pseudintermedius</i>	coagulase negative <i>Staphylococcus sp.</i> , <i>Rothia sp.</i> , coryneform bacteria - unspecified	<i>Staphylococcus pseudintermedius</i> , coryneform bacteria - unspecified	No growth
3	<i>Bacillus sp.</i> , <i>Streptomyces sp.</i> , <i>Arthrobacter sp.</i>	<i>Bacillus sp.</i> , <i>Arthrobacter sp.</i> <i>Actinomyces sp.</i> <i>Agrococcus sp.</i>	<i>Bacillus sp.</i> , <i>Streptomyces sp.</i> , <i>Arthrobacter sp.</i>	Not examined
4	<i>Corynebacterium sp.</i> , gram-negative nonfermenter - unspecified	No growth	No growth	No growth
5	coryneform bacteria - unspecified, <i>Staphylococcus pseudintermedius</i> , coagulase negative <i>Staphylococcus sp.</i> , <i>Cellulomicrobium sp.</i> , <i>Microbacterium species</i> , <i>Alternaria sp.</i> , gram- negative nonfermenter - unspecified	<i>Bacillus sp.</i> , <i>Rothia sp.</i> , coryneform bacteria - unspecified	<i>Staphylococcus pseudintermedius</i> , coryneform bacteria - unspecified, coagulase negative <i>Staphylococcus sp.</i> , <i>Bacillus sp.</i>	<i>Staphylococcus pseudintermedius</i> , <i>Rothia sp.</i>
6	No growth	No growth	No growth	No growth
7	coagulase negative <i>Staphylococcus sp.</i> , <i>Actinomyces sp.</i> , gram- negative nonfermenter,	coagulase negative <i>Staphylococcus sp.</i> , <i>Corynebacterium sp.</i>	<i>Microbacterium sp.</i> , <i>Arthrobacter sp.</i> , <i>Corynebacterium sp.</i>	Not examined

	<i>Streptococcus sp.</i> - alpha hemolytic, coryneform bacteria - unspecified, <i>Streptomyces sp.</i> , <i>Pasturellaceae</i> family organism, <i>Streptococcus sp.</i> - beta hemolytic, <i>Bacillus sp.</i>			
8	coagulase negative <i>Staphylococcus sp.</i>	No growth	<i>Streptomyces sp.</i>	Not examined
9	gram-negative nonfermenter - unspciated, <i>Kocuria sp.</i> , <i>Bacillus sp.</i> , <i>Agrococcus sp.</i> , <i>Micrococcus sp.</i> , <i>Streptomyces sp.</i>	No growth	Coagulase negative <i>Staphylococcus sp.</i> , <i>Streptococcus sp.</i> - alpha hemolytic, <i>Micrococcus sp.</i> , <i>Macrococcus sp.</i> , <i>Moraxella sp.</i>	Not examined
10	No growth	Not examined	No growth	Not examined
11	coagulase negative <i>Staphylococcus sp.</i> , <i>Arthrobacter sp.</i>	coagulase negative <i>Staphylococcus sp.</i> , coryneform bacteria - unspecified	coryneform bacteria, <i>Coagulase negative Staphylococcus sp.</i> , <i>Streptococcus sp.</i> - alpha hemolytic	Not examined
12	<i>Streptococcus sp.</i> - alpha hemolytic, coagulase negative <i>Staphylococcus sp.</i>	coagulase negative <i>Staphylococcus sp.</i>	No growth	Not examined
13	<i>Micrococcus sp.</i>	coagulase negative <i>Staphylococcus sp.</i>	No growth	<i>Streptococcus sp.</i> - non-hemolytic, <i>Neisseria sp.</i>
14	No growth	No growth	No growth	Not examined
15	No growth	No growth	gram-negative nonfermenter - unspecified	No growth

Supplementary Table S1. This table depicts the results of the pooled conjunctival microbial aerobic culture for each dog at the corresponding AQI category period. A gray cell indicates a dog that was not examined during the specified time period.