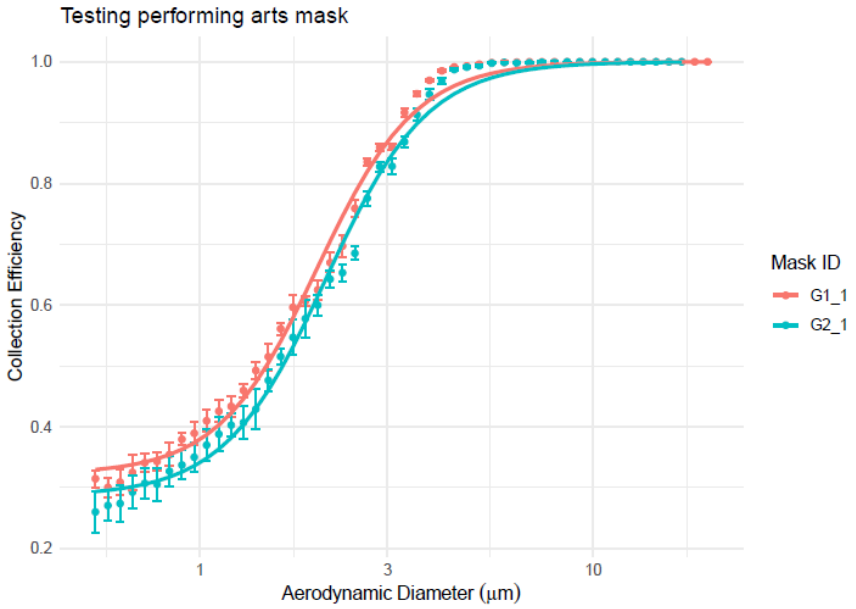
NOTEABLE™ Mask Research Report

Colorado State University

The graph at the right was provided by Colorado State University and shows the results for the two Noteable™ masks that were tested.



Collection efficiency refers to the percentage of different sizes of aerosol particles that are captured by the filter material from a stream of particles that is drawn through the material. In the graph, for example, the masks captured 100% of aerosol particles 10 micrometers in diameter or larger.

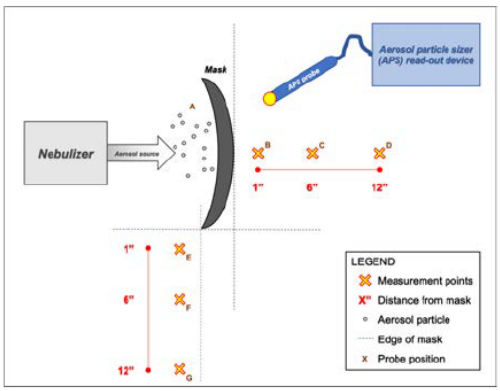
The general range of interest for aerosol particles capable of transporting the COVID virus is from about 0.5 to about 10 micrometers. A particularly critical range is from 1 to 3 micrometers, the respirable sizes of the most inflammatory and toxic particles. The Noteable™ masks filtered more than 80% of the particles 3 micrometers in diameter and more than 30% of the 1 micrometer particles, giving an average of more than 60% within this critical range.

Results for these and other masks can be seen at http://jv.colostate.edu/masktesting/ .

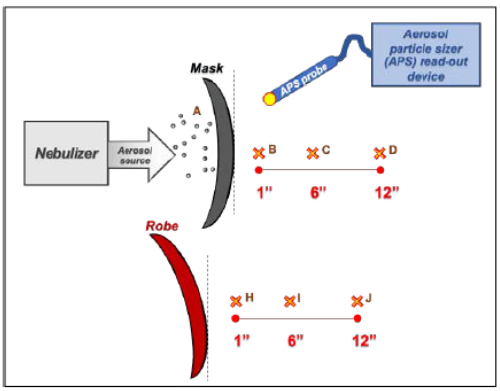
Baylor University

Two experimental setups were tested with an aerosol generator and an aerosol detector: Setup A with a Noteable™ mask alone and Setup B with a Noteable™ mask and choir robe positioned beneath.

For both setups, within the experimental parameters, no aerosol particles larger than 3 micrometers were detected in front of the mask, beneath the mask, or in front of the choir robe. Aerosols were successfully captured by the mask and were prevented from crossing the barrier.



SETUP A



SETUP B

For more information, contact Dr. Christie Sayes at: christie_sayes@baylor.edu.