

BACKED BY SCIENCE

Tested by leading accredited
labs worldwide



99.93% Reduction of COVID-19 virus

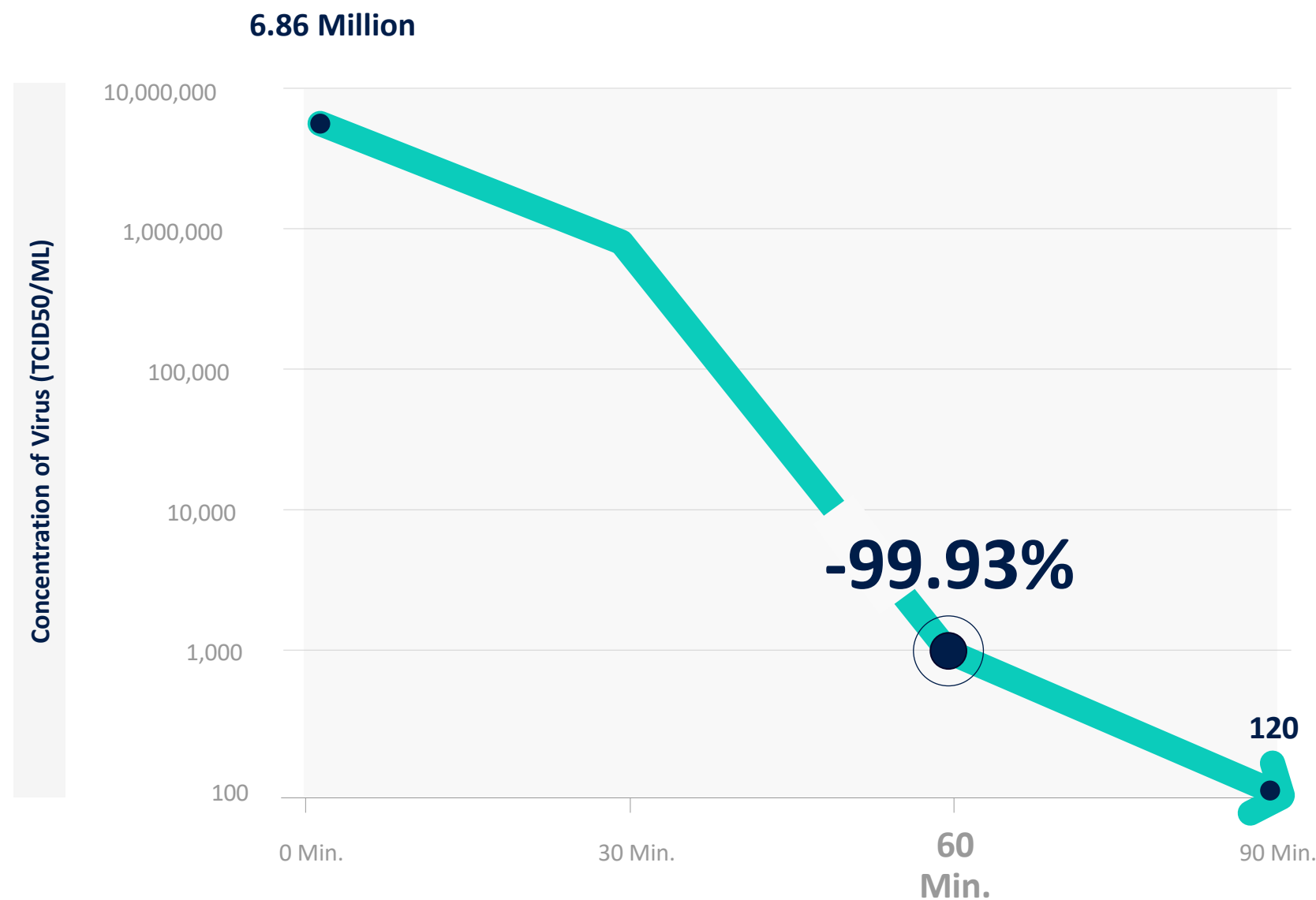
BIOSAFETY
LEVEL 3
(BSL-3)



INNOVATIVE
BIOANALYSIS



Tested Species: SARS-CoV-2 virus
Chamber size: 16 cubic meter
Laboratory: Innovative Bioanalysis, USA



Virus Concentration Reduction

Time	NO DEVICE	VS	TADIRAN AIROW 3™
0 min.	6,860,000	VS	6,860,000
30 min.	4,270,000	VS	1,000,000
60 min.	2,260,000	VS	1,530
90 min.	1,000,000	VS	120

TADIRAN AIROW 3 device was tested in the US-based internationally recognized laboratory Innovative Bioanalysis, which is BSL3 accredited. TADIRAN AIROW 3 reduced the amount of aerosolized SARS-CoV-2 in 16 cubic meter test chamber, by 99.93% within 60 min.



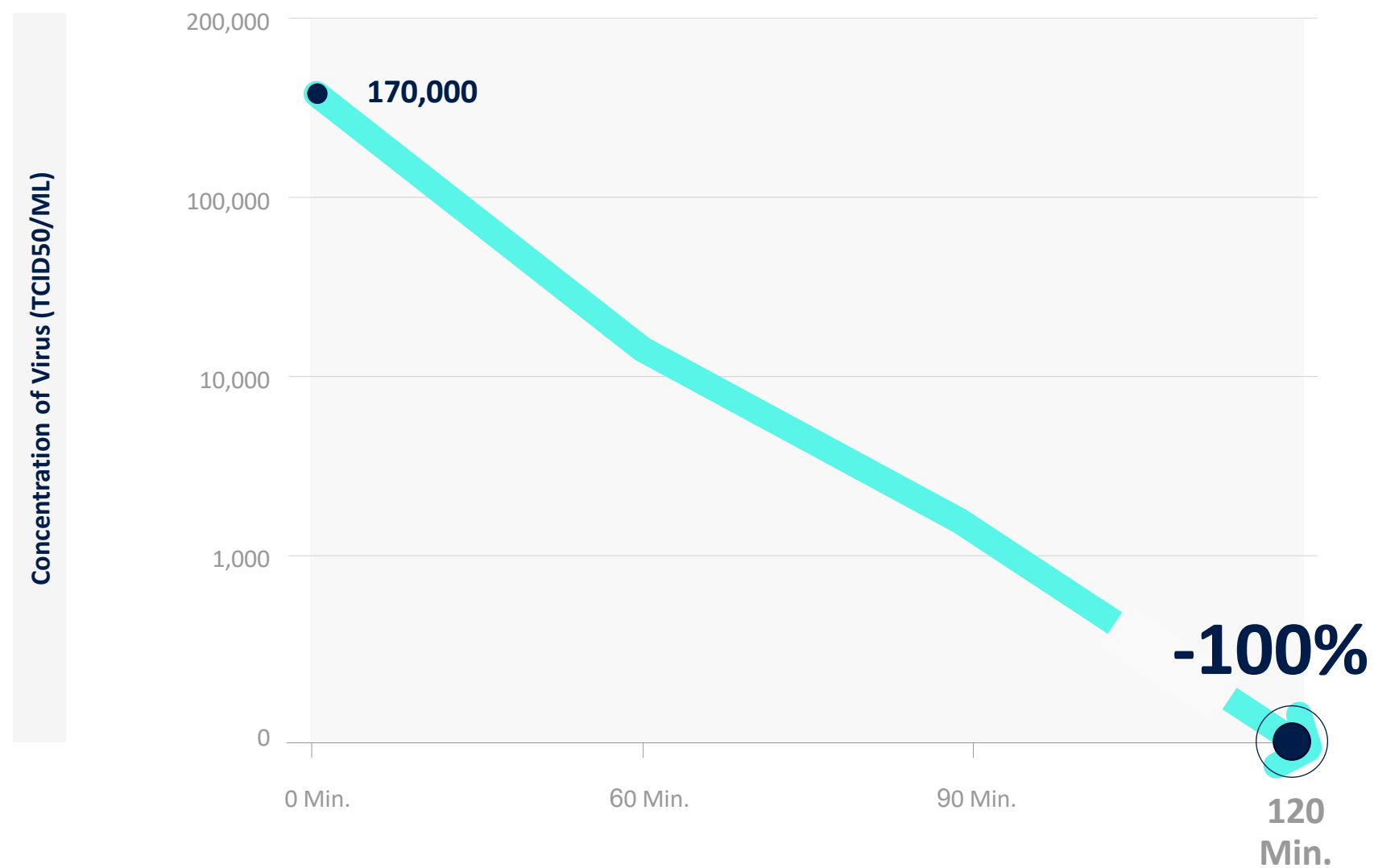
100% Reduction of Streptococcus pyogenes (Group A Strep) bacteria

Tested Species: Streptococcus pyogenes
 Chamber size: 36 cubic meter
 Laboratory: Innovative Bioanalysis, USA

BIOSAFETY
 LEVEL 3
 (BSL-3)



INNOVATIVE
 BIOANALYSIS



Bacteria Concentration Reduction

Time	NO DEVICE	VS	TADIRAN AIROW 3™
0 min.	170,000	VS	170,000
60 min.	58,600	VS	18,400
90 min.	22,500	VS	3,400
120 min.	8,260	VS	0

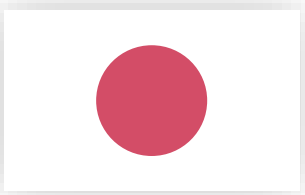
Legend: ■ NO DEVICE ■ TADIRAN AIROW 3™

TADIRAN AIROW 3 device was tested in the US-based internationally recognized laboratory Innovative Bioanalysis, which is BSL3 accredited. TADIRAN AIROW 3 reduced the amount of *Streptococcus pyogenes* in 36 cubic meter test chamber, by 100% within 120 min.



99.4%

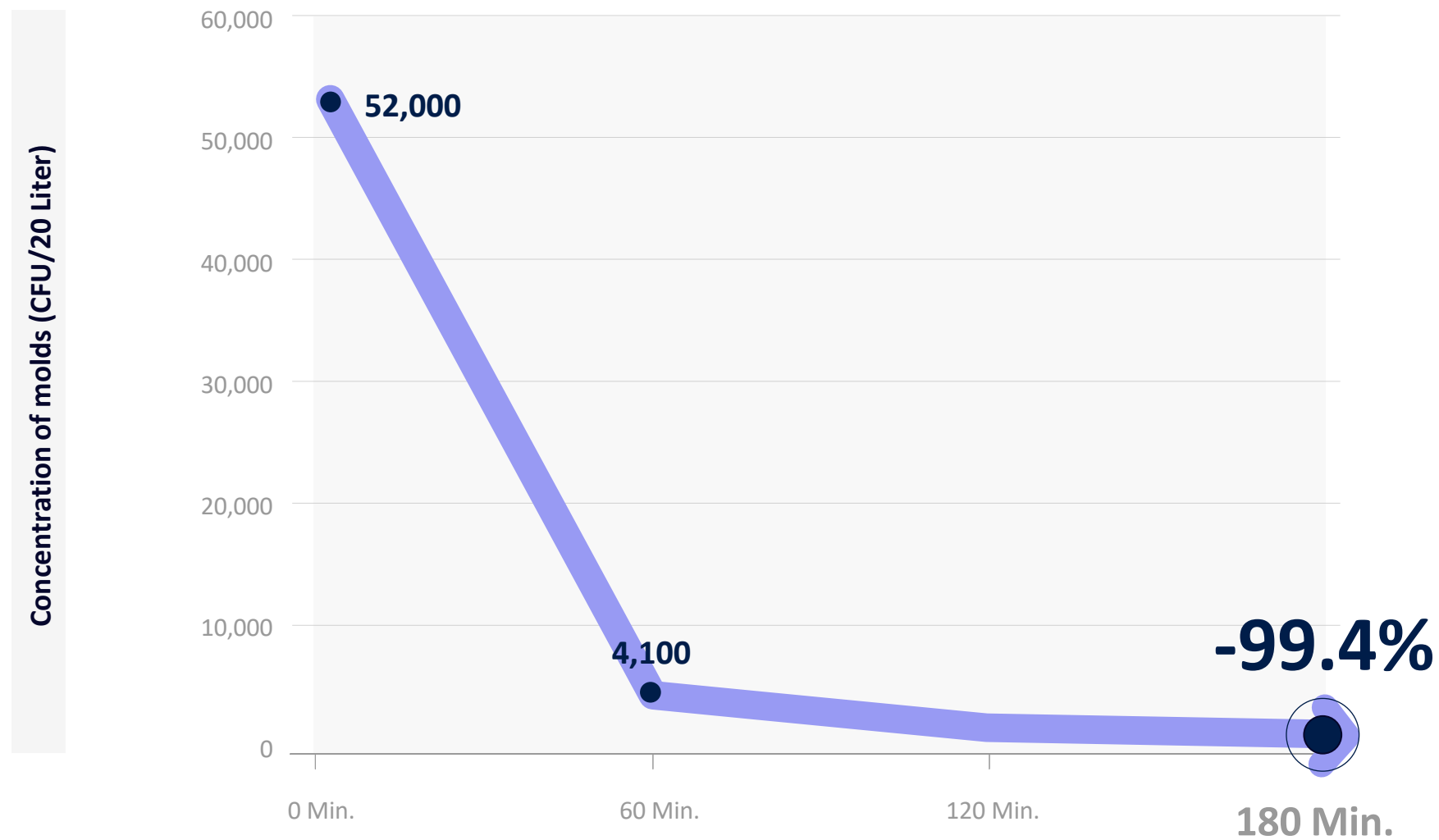
Reduction of MOLD



Tested Species: Blue Mold (*Penicillium Citrinum*)

Chamber size: 25 cubic meter

Laboratory: Kitasato Research Center for Environmental Science, Japan



Mold Concentration Reduction

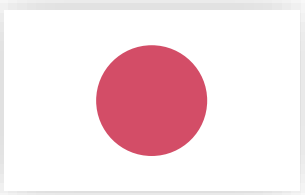
🕒	NO DEVICE	VS	TADIRAN AIROW 3™
0 min.	51,000	VS	52,000
60 min.	33,000	VS	4,100
120 min.	15,000	VS	380
180 min.	8,800	VS	46

Legend: NO DEVICE (dark blue square), TADIRAN AIROW 3™ (light blue square with logo)

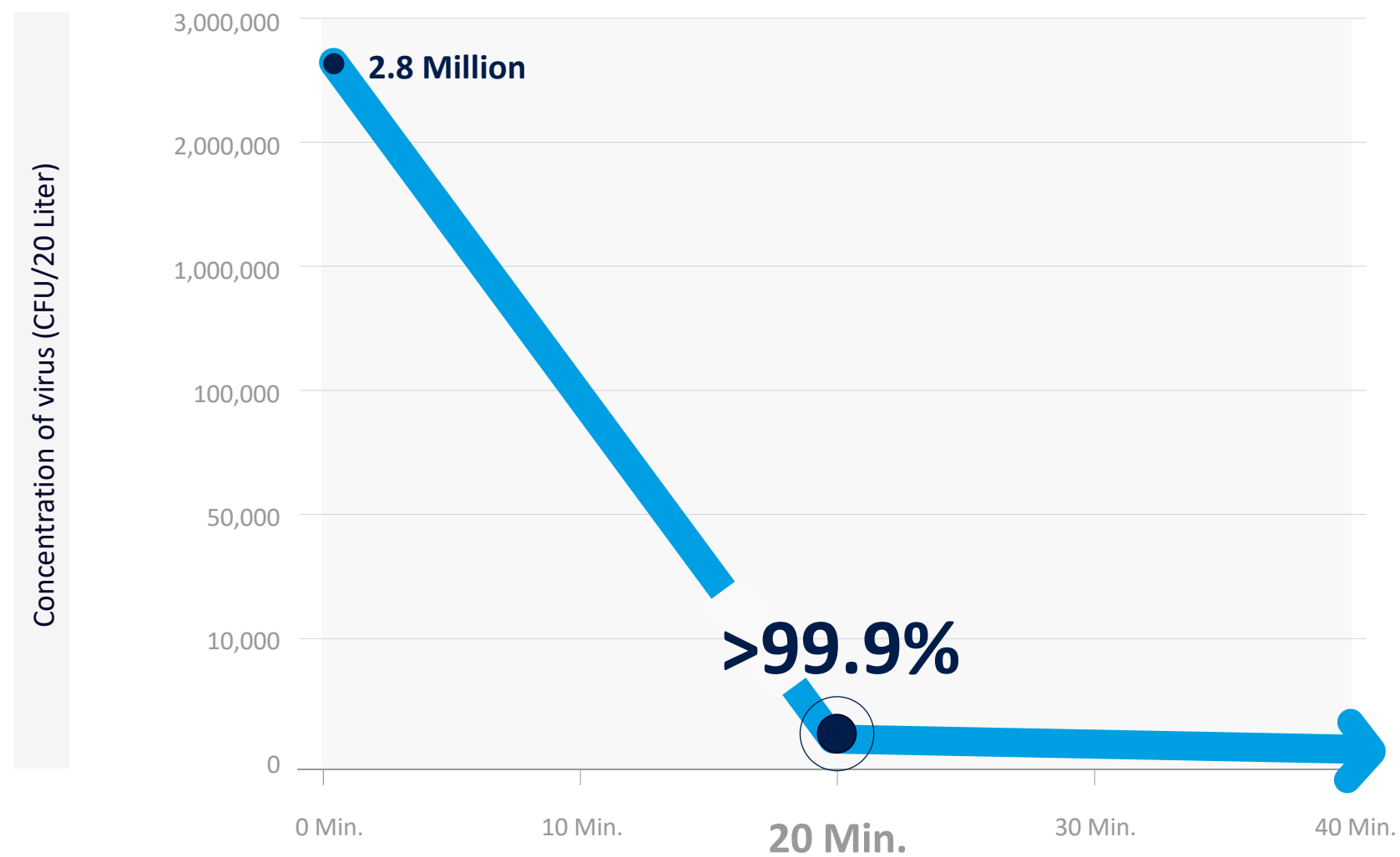
TADIRAN AIROW 3 was tested against Blue mold at Kitasato Research Center for Environmental Science (KRCES). Exposure to Blue Mold spores is associated with a range of respiratory problems - increased risk of asthma and respiratory diseases. TADIRAN AIROW 3 passed the test with flying colors. After 180 minutes there was a reduction of 99.4% of the fungus in the 25 cubic meter chamber.



>99.9% Reduction of Influenza virus



Tested Species: *Influenza virus*
Chamber size: 0.2 cubic meter
Laboratory: Kitasato Research Center for Environmental Science, Japan



Influenza Virus Concentration Reduction With TADIRAN AIROW 3™

🕒	%Net Reduction	Concentration
0 min.	0%	2,800,000
20 min.	>99.9%	Lower than <math>< 380</math>

■ % Reduction ■ TADIRAN AIROW 3™

In one of the most trusted lab in Japan, Kitasato Research Center for Environmental Science (KRCES), TADIRAN AIROW 3 was tested and found to reduce levels of *Influenza virus* in more than 99.9% within 20 min in a 0.2 cubic meter chamber.



99.93% Reduction of Bacteria Staphylococcus Epidermidis



Tested Species: Bacteria *Staphylococcus Epidermidis*

Chamber size: 1 cubic meter

Laboratory: Aerosol Research and Engineering Laboratories, USA | FDA certified lab



Bacteria Staphylococcus Epidermidis Concentration Reduction With TADIRAN AIROW 3™

🕒	%Net Reduction	VS	Concentration
0 min.	0	VS	15,820,000
30 min.	98.543%	VS	110,800
60 min.	99.994%	VS	133
90 min.	99.999%	VS	11

■ % Reduction ■ TADIRAN AIROW 3™

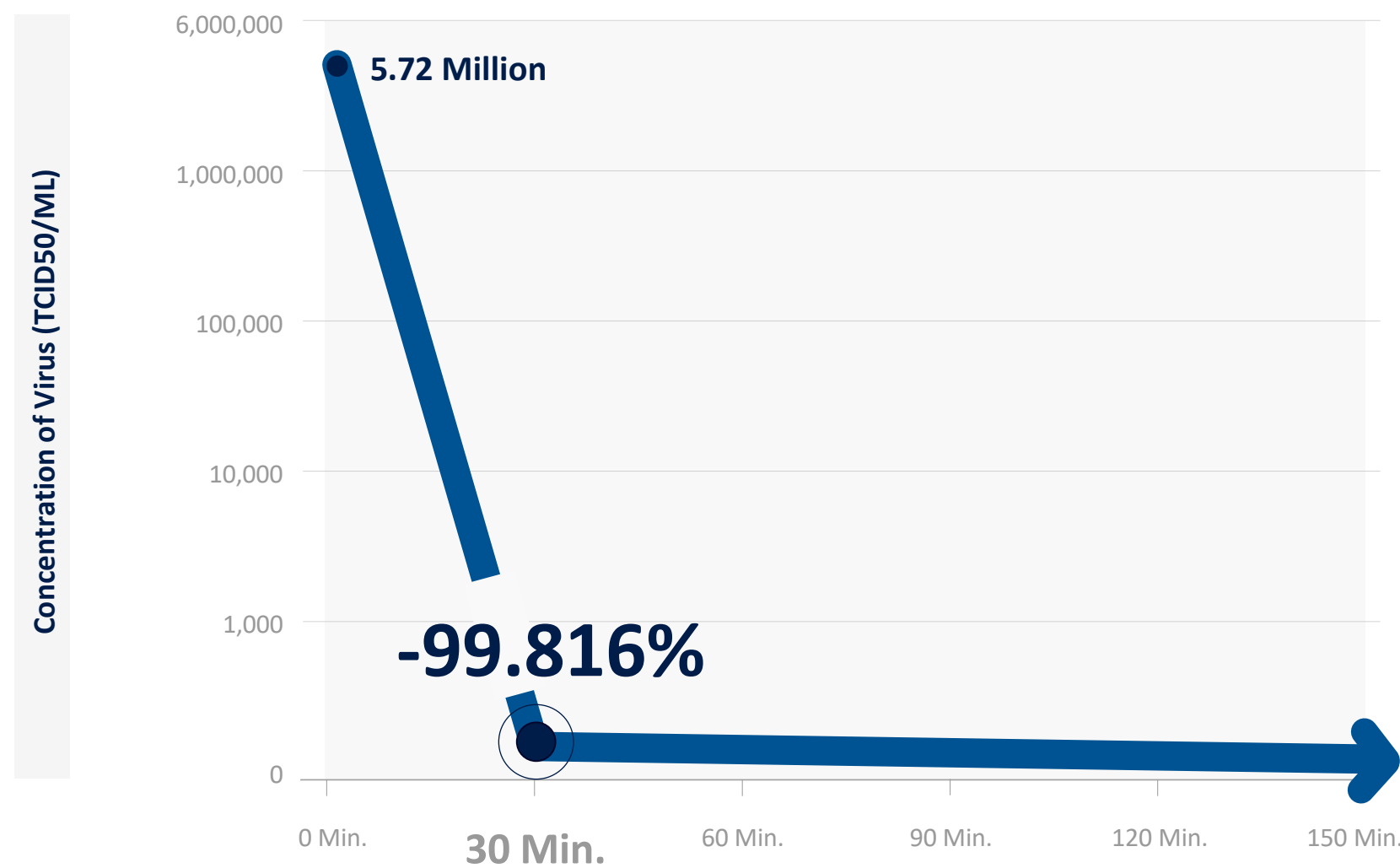
TADIRAN AIROW 3 was tested in ARE Labs, an FDA-cleared Aerosol Research and Engineering laboratories located in the USA. After 60 minutes TADIRAN AIROW 3 reduced the bacteria aerosol levels by 99.994% in the tested one cubic meter chamber.



99.816% Reduction of RNA Virus MS2



Tested Species: RNA Virus MS2 Bacteriophage
Chamber size: 1 cubic meter
Laboratory: Aerosol Research and Engineering Laboratories, USA | FDA certified lab



MS2 Concentration Reduction With TADIRAN AIROW 3™

🕒	%Net Reduction	VS	Concentration
0 min.	0	VS	5,726,667
30 min.	99.816%	VS	3,141
60 min.	99.994%	VS	39
90 min.	99.998%	VS	6

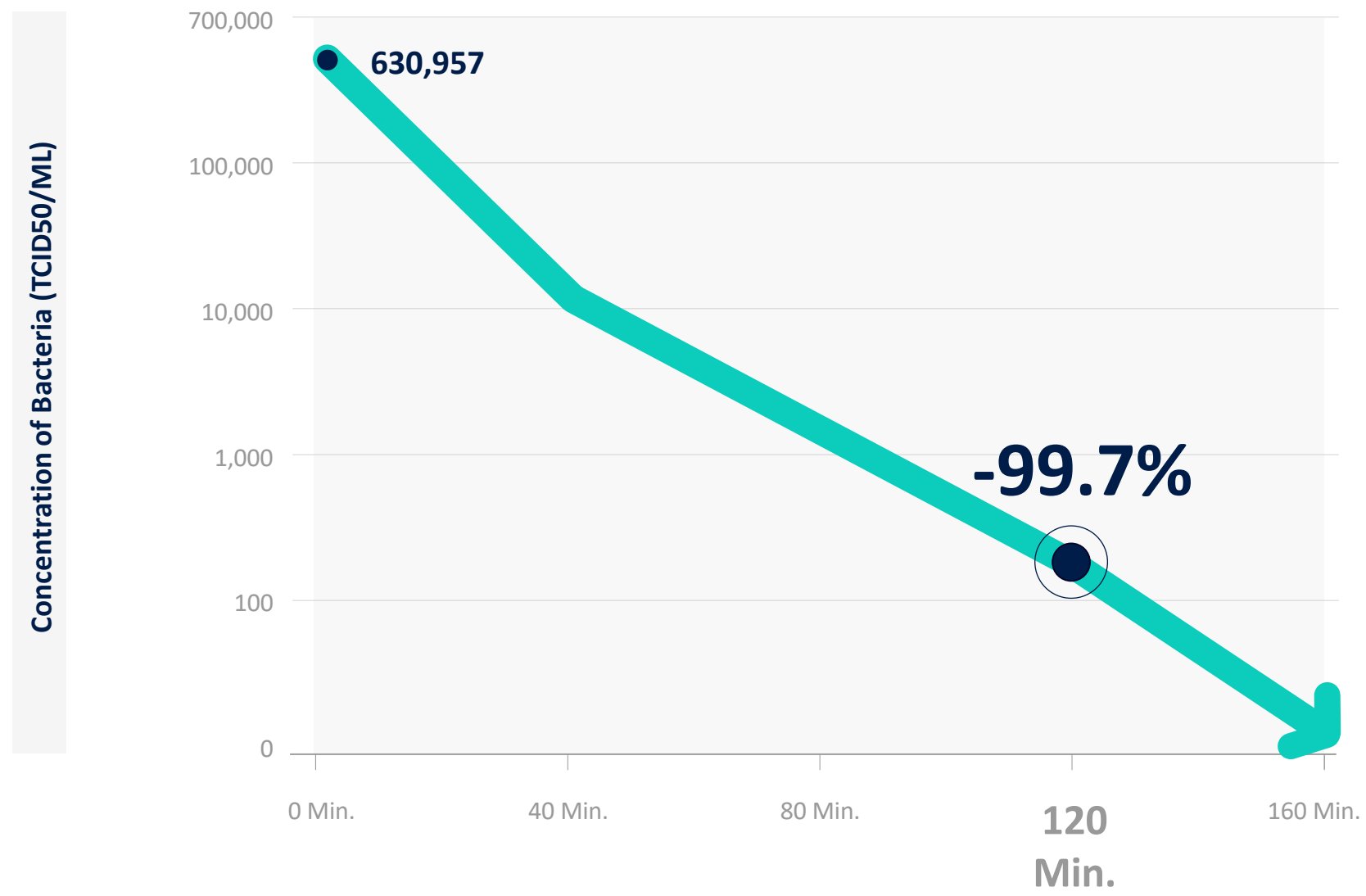
■ % Reduction ■ TADIRAN AIROW 3™

TADIRAN AIROW 3 was tested and found to reduced MS2 levels in one cubic meter chamber. After 60 minutes, there was a reduction of 99.816% of the virus in the tested chamber. The test was conducted in the FDA-cleared Aerosol Research and Engineering laboratories located in the USA.



99.7% Reduction of Phi6, *Pseudomonas* Virus

Tested Species: Corona Virus Surrogate, Phi6 Bacteriophage
 Chamber size: 30 cubic meter
 Laboratory: Campden BRI, Chipping Campden, UK



Phi6 Concentration Reduction With TADIRAN AIROW 3™

🕒	%Net Reduction	VS	Concentration
0 min.	0.0%	VS	630,957
40 min.	85.3%	VS	25,119
80 min.	96.7%	VS	1,995
120 min.	99.7%	VS	251
160 min.	99.8%	VS	<100

■ % Reduction ■ TADIRAN AIROW 3™

TADIRAN AIROW 3 was tested in ARE Labs, an FDA-cleared Aerosol Research and Engineering laboratories located in the USA. After 60 minutes TADIRAN AIROW 3 reduced the bacteria aerosol levels by 99.994% in the tested one cubic meter chamber.



Summary of protocol



Tested AC	Tested Microorganisms	Names of Tested Microorganisms	Protocol
<p>Tadiran Joy 18 A/C high wall mini-split was used with AIROW 3 air purifier installed inside</p> <p>Chamber Size: 54 m³</p> <p>Time points: samples were taken every 30 min, for 4 total hours.</p> <p>The samples were taken at different distances from the A/C: 1, 2, 3 and 4 m</p>	<ul style="list-style-type: none">• Viruses• Bacteria• Yeast• Molds	<p>Virus Mastadenovirus A</p> <p>Bacteria Staphylococcus aureus</p> <p>Mold Apergillus fumigatus</p>	<p>The results presented are based on average calculation from 5 independent tests conducted with the TADIRAN AIROW 3 devices and average value for 4 m distance presented in the below plots in this presentation.</p>

Pathogens Reduction Results



Type of Challenging Compound	Name of Microorganism	Conditions	Results	Lab name
Virus	Mastadenovirus A	54 m3	>99.9% within 3 h	Reborn Lab, Italy
Bacteria	Staphylococcus aureus		>99% within 2 h	
Mold	Apergillus fumigatus		>99% within 2 h	