



# **Bacterial and Viral Removal Rate Testing Report**



GUANGDONG DETECTION CENTER OF MICROBIOLOGY

REPORT FOR ANALYSIS



Report №.: 2024FM20816R01E

Verification Code: 4EFAWXAW

Name of Sample	TY-100 Plasma air sterilizer	Test Type	Entrustment Test
Applicant	Guangdong Tongyuan Electric Appliance Co., Ltd	Address	No. 8 Dadi Road, Shapuwei, Songgang Town, Bao'an District, Shenzhen City, Guangdong Province
Sample Source	Submitted for Testing by the Applicant	Sample Quantity	2PCS
Spec and Lot № of Sample	TY-100	State and Characteristic	Machine
Sample Received Date	2024-11-13	Test Completion Date	2025-01-03
Item Tested	Antibacterial (Eliminating bacterial) performance		
Test Standard and Method	GB/T 18801-2022		
Test Conclusion	<p>The results showed that in a 30m<sup>3</sup> test chamber, turned on the energy-saving mode of the prototype for 1 hour, and the average antibacterial (eliminating bacterial) rate of <i>Staphylococcus aureus</i> ATCC 6538 in the air was &gt;99.99 %.</p> <p>Issue Date: 2025-01-03 (Official Seal)</p>		
Remarks	<p>检验检测专用章</p>		

Editor:

Qiuwanchun

Verifier:

Shen Jie

Approver:

Xie Xiaobao





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GUANGDONG DETECTION CENTER OF MICROBIOLOGY

REPORT FOR ANALYSIS



Report No.: 2024FM20816R02E

Verification Code: S4KBHGX5

Name of Sample	TY-100 Plasma air sterilizer	Test Type	Entrustment Test
Applicant	Guangdong Tongyuan Electric Appliance Co., Ltd	Address	No. 8 Dadi Road, Shapuwei, Songgang Town, Bao'an District, Shenzhen City, Guangdong Province
Sample Source	Submitted for Testing by the Applicant	Sample Quantity	2PCS
Spec and Lot No of Sample	TY-100	State and Characteristic	Machine
Sample Received Date	2024-11-13	Test Completion Date	2025-01-03
Item Tested	Antibacterial (Eliminating bacterial) performance		
Test Standard and Method	Refer to GB/T 18801-2022		
Test Conclusion	<p>The results showed that in a 30m<sup>3</sup> test chamber, turned on the energy-saving mode of the prototype for 1 hour, and the average antibacterial (eliminating bacterial) rate of <i>Streptococcus pneumoniae</i> ATCC 49619 in the air was &gt;99.99 %.</p> <p>Issue Date: 2025-01-03 (Official Seal)</p>		
Remarks	<p>检验检测专用章</p>		

Editor:

Qiuwan Chun

Verifier:

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Approver:

Xie Xiaobao





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GUANGDONG DETECTION CENTER OF MICROBIOLOGY

REPORT FOR ANALYSIS



Report No.: 2024FM20446R03E

Verification Code: 577NVSEC

Name of Sample	TY-100 Plasma air sterilizer	Test Type	Entrustment Test
Applicant	Guangdong Tongyuan Electric Appliance Co., Ltd	Address	No. 8 Dadi Road, Shapuwei, Songgang Town, Bao'an District, Shenzhen City, Guangdong Province
Sample Source	Submitted for Testing by the Applicant	Sample Quantity	2PCS
Spec and Lot No of Sample	TY-100, 241018136	State and Characteristic	Machine
Sample Received Date	2024-11-08	Test Completion Date	2025-01-07
Item Tested	Antibacterial (Eliminating bacterial) performance		
Test Standard and Method	Refer to GB 21551.3-2010 Appendix A		
Test Conclusion	<p>The results showed that in a 30m<sup>3</sup> test chamber, turned on the energy-saving mode of the prototype for 1 hour, and the average antibacterial (eliminating bacterial) rate of <i>Klebsiella pneumoniae</i> (ATCC 4352) in the air was &gt;99.99%.</p> <p>Issue Date: 2025-01-07 (Official Seal)</p>		
Remarks	Manufacturer: Guangdong Tongyuan Electric Appliance Co., Ltd. (Provided by the applicant)		

Editor:

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GUANGDONG DETECTION CENTER OF MICROBIOLOGY

REPORT FOR ANALYSIS



Report No.: 2024FM20446R07E      Verification Code: 7NB2BBYX

Name of Sample	TY-100 Plasma air sterilizer	Test Type	Entrustment Test
Applicant	Guangdong Tongyuan Electric Appliance Co., Ltd	Address	No. 8 Dadi Road, Shapuwei, Songgang Town, Bao'an District, Shenzhen City, Guangdong Province
Sample Source	Submitted for Testing by the Applicant	Sample Quantity	2PCS
Spec and Lot № of Sample	TY-100, 241018136	State and Characteristic	Machine
Sample Received Date	2024-11-08	Test Completion Date	2025-01-07
Item Tested	Virus elimination performance test		
Test Standard and Method	GB/T 18801-2022		
Test Conclusion	<p>The results showed that in the 30m<sup>3</sup> test chamber, turned on the energy-saving mode of the prototype for 1 hour, the average removal rate of Human Respiratory Syncytial Virus in the air was &gt;99.99%.</p> <div><div>Issue Date: 2025-01-07</div><div>(Official Seal)</div></div>		
Remarks	Manufacturer: Guangdong Tongyuan Electric Appliance Co., Ltd. (Provided by the applicant)		

Editor: Qiuwanchun

Verifier:

Approver: Xie Xiaobao





GUANGDONG DETECTION CENTER OF MICROBIOLOGY

REPORT FOR ANALYSIS



Report No.: 2024FM18072R01E

Verification Code: GEL69D7R

Name of Sample	TY-100 Plasma air sterilizer	Test Type	Entrustment Test
Applicant	Guangdong Tongyuan Electric Appliance Co., Ltd	Address	No. 8 Dadi Road, Shapuwai, Songgang Town, Bao'an District, Shenzhen City, Guangdong Province
Sample Source	Submitted for Testing by the Applicant	Sample Quantity	2PCS
Spec and Lot No of Sample	TY-100	State and Characteristic	Machine
Sample Received Date	2024-09-26	Test Completion Date	2025-01-07
Item Tested	Antibacterial (Eliminating bacterial) performance		
Test Standard and Method	GB/T 18801-2022		
Test Conclusion	<p>The results showed that in a 30m<sup>3</sup> test chamber, turned on the energy-saving mode of the prototype for 1 hour, and the average antibacterial (eliminating bacterial) rate of <i>Staphylococcus albus</i> 8032, <i>Escherichia coli</i> 8099 and <i>Aspergillus niger</i> ATCC 6275 in the air were 99.46 %, &gt;99.99 %, and 97.82 %, respectively.</p> <p>Issue Date: 2025-01-07 (Official Seal)</p>		
Remarks	Manufacturer: Guangdong Tongyuan Electric Appliance Co., Ltd. (Provided by the applicant)		

Editor:

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GUANGDONG DETECTION CENTER OF MICROBIOLOGY

REPORT FOR ANALYSIS



Report No.: 2024FM18072R05E

Verification Code: ERN4LWBL

Name of Sample	TY-100 Plasma air sterilizer	Test Type	Entrustment Test
Applicant	Guangdong Tongyuan Electric Appliance Co., Ltd	Address	No. 8 Dadi Road, Shapuwei, Songgang Town, Bao'an District, Shenzhen City, Guangdong Province
Sample Source	Submitted for Testing by the Applicant	Sample Quantity	2PCS
Spec and Lot No of Sample	TY-100	State and Characteristic	Machine
Sample Received Date	2024-09-26	Test Completion Date	2025-01-07
Item Tested	Virus elimination performance test		
Test Standard and Method	GB/T 18801-2022		
Test Conclusion	<p>The results showed that in the 30m<sup>3</sup> test chamber, turned on the energy-saving mode of the prototype for 1 hour, the average removal rate of Influenza A virus H1N1, Human enterovirus 71 and Human coronavirus HCoV-229E in the air were 99.99%, 99.58% and 99.96%, respectively.</p> <p>Issue Date: 2025-01-07 (Official Seal)</p>		
Remarks	Manufacturer: Guangdong Tongyuan Electric Appliance Co., Ltd. (Provided by the applicant)		

Editor:

Qiuwanchun

Verifier:

San Jius

Approver:

Xie Xiaobao



# Allergen Removal Rate Testing Report







GUANGDONG DETECTION CENTER OF MICROBIOLOGY

REPORT FOR ANALYSIS



Report No.: 2024FM18072R06E

Verification Code: XS7U4FK7

Name of Sample	TY-100 Plasma air sterilizer	Test Type	Entrustment Test
Applicant	Guangdong Tongyuan Electric Appliance Co., Ltd	Address	No. 8 Dadi Road, Shapuwei, Songgang Town, Bao'an District, Shenzhen City, Guangdong Province
Sample Source	Submitted for Testing by the Applicant	Sample Quantity	2PCS
Spec and Lot No of Sample	TY-100	State and Characteristic	Machine
Sample Received Date	2024-09-26	Test Completion Date	2025-01-07
Item Tested	Allergen removal performance test		
Test Standard and Method	GB/T 18801-2022		
Test Conclusion	<p>The results showed that the removal rate of pollen allergen Bet v1 and <i>Canis familiaris</i> allergen Can f1 were &gt;97.22% and &gt;97.25%, respectively after turned on the energy-saving mode of the prototype for 1 hour in the 30m<sup>3</sup> test chamber.</p>		
Remarks	Manufacturer: Guangdong Tongyuan Electric Appliance Co., Ltd. (Provided by the applicant)		

Issue Date: 2025-01-07  
(Official Seal)

Editor:

Qiunanchun

Verifier:

San Jia

Approver:

Xie Xiaobao





GUANGDONG DETECTION CENTER OF MICROBIOLOGY

REPORT FOR ANALYSIS



Report No.: 2024FM20816R04E

Verification Code: G7MQ45V3

Name of Sample	TY-100 Plasma air sterilizer	Test Type	Entrustment Test
Applicant	Guangdong Tongyuan Electric Appliance Co., Ltd	Address	No. 8 Dadi Road, Shapuwei, Songgang Town, Bao'an District, Shenzhen City, Guangdong Province
Sample Source	Submitted for Testing by the Applicant	Sample Quantity	2PCS
Spec and Lot No of Sample	TY-100	State and Characteristic	Machine
Sample Received Date	2024-11-13	Test Completion Date	2025-01-03
Item Tested	Allergen removal performance test		
Test Standard and Method	GB/T 18801-2022		
Test Conclusion	<p>The results showed that the removal rate of <i>Felis domesticus</i> allergen Fel d1 and mold allergen Alt a 1 were &gt;99.28 % and &gt;98.61 %, respectively after turned on the prototype for 1 hour in the 30m<sup>3</sup> test chamber.</p> <p>Issue Date: 2025-01-03 (Official Seal)</p>		
Remarks	<p>检验检测专用章</p>		

Editor: Qiuwanchun

Verifier: Sun Jie

Approver: Xie Xiaobao





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REPORT FOR ANALYSIS



Report №.: 2024FM20446R04E

Verification Code: KM8JYLQS

Name of Sample	TY-100 Plasma air sterilizer	Test Type	Entrustment Test
Applicant	Guangdong Tongyuan Electric Appliance Co., Ltd	Address	No. 8 Dadi Road, Shapuwei, Songgang Town, Bao'an District, Shenzhen City, Guangdong Province
Sample Source	Submitted for Testing by the Applicant	Sample Quantity	2PCS
Spec and Lot № of Sample	TY-100, 241018136	State and Characteristic	Machine
Sample Received Date	2024-11-08	Test Completion Date	2025-01-07
Item Tested	Allergen removal performance test		
Test Standard and Method	GB/T 18801-2022		
Test Conclusion	The results showed that the removal rate of Mite allergen Der f 1 was >98.63% after turned on the energy-saving mode of the prototype for 1 hour in the 30m <sup>3</sup> test chamber.		
Remarks	Manufacturer: Guangdong Tongyuan Electric Appliance Co., Ltd. (Provided by the applicant)		

Issue Date: 2025-01-07

(Official Seal)

Editor:

Qiuwanchun

Verifier:

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Approver:

Xie Xiaobao



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# **Ozone Concentration Testing Report**





GUANGDONG DETECTION CENTER OF MICROBIOLOGY

REPORT FOR ANALYSIS



Report No.: 2024FM18072R07E

Verification Code: F243V423

Name of Sample	TY-100 Plasma air sterilizer	Test Type	Entrustment Test
Applicant	Guangdong Tongyuan Electric Appliance Co., Ltd	Address	No. 8 Dadi Road, Shapuwei, Songgang Town, Bao'an District, Shenzhen City, Guangdong Province
Sample Source	Submitted for Testing by the Applicant	Sample Quantity	2PCS
Spec and Lot No of Sample	TY-100	State and Characteristic	Machine
Sample Received Date	2024-09-26	Test Completion Date	2025-01-07
Item Tested	Ozone concentration (5 cm away from the air outlet)		
Test Standard and Method	GB 21551.3-2010		
Test Conclusion	<p>The results showed that the ozone concentration at 5 cm away from the air outlet of the sample was <math>&lt;0.003\text{ mg/m}^3</math>.</p> <p>Issue Date: 2025-01-07 (Official Seal)</p>		
Remarks	Manufacturer: Guangdong Tongyuan Electric Appliance Co., Ltd. (Provided by the applicant)		

Editor:

Qiuwanchun

Verifier:

Shi Jie

Approver:

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