

# CERTIFICATE OF ANTIBACTERIAL ANALYSIS

<b>CERTIFICATE NO.</b>	BC071/2020	<b>DATE RECEIVED</b>	11.05.2020, 18.05.2020
<b>CUSTOMER</b>	FANTON SPA	<b>DATE ANALYSED</b>	27.05.2020, 02.06.2020, 09.06.2020
<b>CUSTOMER REF.</b>	200/286-287, 200/302-303	<b>DATE REPORTED</b>	12.06.2020
<b>UNITS OF RESULTS</b>	Colony Forming Units	<b>NO. OF PAGES</b>	1 of 1

## METHOD OF ANALYSIS: DETERMINATION OF ANTIBACTERIAL ACTIVITY USING ISO 22196:2011

SAMPLE	TEST ORGANISM	CONTACT TIME		REDUCTION (INITIAL)	
		0 HRS	24 HRS	Log <sub>10</sub>	%
ELECTRICAL MATERIALS. POLYCARBONATE WITH ANTIMICROBIAL	MRSA	7.56E+04	≤100	≥2.88	≥99.87%
ELECTRICAL MATERIALS. POLYCARBONATE WITH ANTIMICROBIAL	<i>E. coli</i>	9.11E+03	≤100	≥1.96	≥98.90%
ELECTRICAL MATERIALS. POLYCARBONATE CONTROL	MRSA	1.41E+04	5.63E+05	GROWTH	GROWTH
ELECTRICAL MATERIALS. POLYCARBONATE CONTROL	<i>E. coli</i>	6.01E+04	8.96E+05	GROWTH	GROWTH
ELECTRICAL MATERIALS. POLYPROPYLENE WITH ANTIMICROBIAL	MRSA	1.99E+04	≤100	≥2.30	≥99.50%
ELECTRICAL MATERIALS. POLYPROPYLENE WITH ANTIMICROBIAL	<i>E. coli</i>	1.05E+04	≤100	≥2.02	≥99.05%
ELECTRICAL MATERIALS. POLYPROPYLENE CONTROL	MRSA	1.99E+04	1.94E+04	0.01	2.74%
ELECTRICAL MATERIALS. POLYPROPYLENE CONTROL	<i>E. coli</i>	1.05E+04	9.44E+05	GROWTH	GROWTH

The above data describe the difference in the population sizes of the test organisms, relative to the initial (0 hours) population, following contact with the surface of the samples detailed in this CoA for 24 hours at 35°C under a RH of >90%. These conditions are those specified by the ISO 22196: 2011 method of analysis.

**Comment:** The samples ELECTRICAL MATERIALS. POLYCARBONATE WITH ANTIMICROBIAL and ELECTRICAL MATERIALS. POLYPROPYLENE WITH ANTIMICROBIAL have achieved the BioCote minimum antibacterial performance requirement of 95% "Reduction against the initial for *E. coli* and MRSA" according to ISO 22196: 2011 analysis.

FOR BIOCOTE LTD



**Technical Manager**  
 Megan Vaughan

# CERTIFICATE OF ANTIBACTERIAL ANALYSIS

<b>CERTIFICATE NO.</b>	BC103/2020	<b>DATE RECEIVED</b>	13.07.2020
<b>CUSTOMER</b>	FANTON SPA	<b>DATE ANALYSED</b>	25.08.2020
<b>CUSTOMER REF.</b>	200/575-576	<b>DATE REPORTED</b>	27.08.2020
<b>UNITS OF RESULTS</b>	Colony Forming Units	<b>NO. OF PAGES</b>	1 of 1

## METHOD OF ANALYSIS: DETERMINATION OF ANTIBACTERIAL ACTIVITY USING ISO 22196: 2011

SAMPLE	TEST ORGANISM	CONTACT TIME		REDUCTION (INITIAL)	
		0 HRS	24 HRS	Log <sub>10</sub>	%
ELECTRICAL MATERIALS. PVC WITH ANTIMICROBIAL	MRSA	8.77E+04	≤100	≥2.94	≥99.89%
ELECTRICAL MATERIALS. PVC WITH ANTIMICROBIAL	<i>E. coli</i>	5.76E+04	≤100	≥2.76	≥99.83%
ELECTRICAL MATERIALS. PVC CONTROL	MRSA	8.77E+04	8.67E+03	1.01	90.12%
ELECTRICAL MATERIALS. PVC CONTROL	<i>E. coli</i>	5.76E+04	9.25E+05	GROWTH	GROWTH

The above data describe the difference in the population sizes of the test organisms, relative to the initial (0 hours) population, following contact with the surface of the samples detailed in this CoA for 24 hours at 35°C under a RH of >90%. These conditions are those specified by the ISO 22196: 2011 method of analysis.

**Comment:** The sample ELECTRICAL MATERIALS. PVC WITH ANTIMICROBIAL has achieved the BioCote minimum antibacterial performance requirement of 95% "Reduction against the initial for *E. coli* and MRSA" according to ISO 22196: 2011 analysis.

FOR BIOCOTE LTD



**Technical Manager**  
**Megan Vaughan**

The following items are produced with antimicrobial raw material by Biocote (certificate no. BC071/2020 and BC103/2020).  
Method of analysis according to ISO 22196:2011.

CODE	DESCRIPTION	MATERIAL
404204AB	M.socket 1,5m 3G1 S11 4P40+SSW ant. WH	POLYPROPYLENE
40420AB	M.socket 1,5m 3G1 S17 4P40+SW ant. WH	POLYPROPYLENE
404304AB	M.socket 1,5m 3G1 S11 6P40+SSW ant. WH	POLYPROPYLENE
40430AB	M.socket 1,5m 3G1 S17 6P40+SW ant. WH	POLYPROPYLENE
40450AB	M.socket 1,5m 3G1 S17 3P40+2USB+SW an.WH	POLYPROPYLENE
410100AB	M.socket 1,5m 3G1 S17 4P40+SW ant. WH	POLYCARBONATE
410130AB	M.socket w/o cable 4P40 ant. WH	POLYCARBONATE
410150AB	M.socket 1,5m 3G1 S17 4P40+2USB+SW an.WH	POLYCARBONATE
4102004AB	M.socket 1,5m 3G1 S11 6P40+SSW ant. WH	POLYCARBONATE
410200AB	M.socket 1,5m 3G1 S17 6P40+SW ant. WH	POLYCARBONATE
410230AB	M.socket w/o cable 6P40 ant. WH	POLYCARBONATE
4201002DEAB	M.socket 1,5m 3G1,5 S31 4s.DE+SW ant. WH	POLYCARBONATE
4201002FRAB	M.socket 1,5m 3G1,5 S31 4s.FR+SW ant. WH	POLYCARBONATE
4201502DEAB	M.sock.1,5m 3G1,5 S31 4s.DE+2USB+SW a.WH	POLYCARBONATE
4201502FRAB	M.sock.1,5m 3G1,5 S31 4s.FR+2USB+SW a.WH	POLYCARBONATE
4202002DEAB	M.socket 1,5m 3G1,5 S31 6s.DE+SW ant. WH	POLYCARBONATE
4202002FRAB	M.socket 1,5m 3G1,5 S31 6s.FR+SW ant. WH	POLYCARBONATE
42100AB	Double wired P40 for 3-mod.box ant. WH	POLYCARBONATE
4742010AB	M.socket 1,5m 3G1,5 S31 4P40+SW ant. WH	POLYPROPYLENE
4743010AB	M.socket 1,5m 3G1,5 S31 6P40+SW ant. WH	POLYPROPYLENE
4744010AB	M.socket 1,5m 3G1,5 S31 4+4P40+SW ant.WH	POLYPROPYLENE
80005AB	Plug S10 demountable Easy ant. WH	POLYCARBONATE
80010AB	Plug S11 demountable Bicò ant. WH	POLYCARBONATE
80011AB	Plug S11 demountable Bicò ant. BK	POLYCARBONATE
80015AB	Plug S11 demountable Easy ant. WH	POLYCARBONATE
80020AB	Plug S17 demountable Bicò ant. WH	POLYCARBONATE
80021AB	Plug S17 demountable Bicò ant. BK	POLYCARBONATE
80025AB	Plug S17 demountable Easy ant. WH	POLYCARBONATE
80052AB	Plug S31 demountable HI-PRO IP44 ant. BK	POLYPROPYLENE
80070AB	Plug S31 demountable 2P+E 16A ant. WH	POLYPROPYLENE
80075AB	Plug S31 demountable 2P+E 16A ant. WH	POLYCARBONATE
80100AB	Plug S11 demountable HI-PRO ant. WH	POLYPROPYLENE
80110AB	Plug S17 demountable HI-PRO ant. WH	POLYPROPYLENE
81000AB	Socket P17/11 demountable Bicò ant. WH	POLYPROPYLENE
81001AB	Socket P17/11 demountable Bicò ant. BK	POLYPROPYLENE
81010AB	Socket P11 demountable Bicò ant. WH	POLYPROPYLENE
81011AB	Socket P11 demountable Bicò ant. BK	POLYPROPYLENE
81032AB	Socket DE HI-PRO + cover IP44 ant. BK	POLYPROPYLENE
81034AB	Socket FR HI-PRO + cover IP44 ant. BK	POLYPROPYLENE

## FANTON S.p.A.

Società soggetta a direzione e coordinamento da parte di Fa.Mi. srl

Viale dell'Industria, 8/10

35026 CONSELVE (PD) ITALY  
Web: <http://www.fanton.com>  
[info@fanton.com](mailto:info@fanton.com)

P.I./VAT - IT 02353470285

Tel. +39.049.95.97.911  
Fax +39.049.95.00.311  
[amministr@pec.fanton.com](mailto:amministr@pec.fanton.com)

CODE	DESCRIPTION	MATERIAL
81050AB	Socket P40 demountable 2P+E 16A ant. WH	POLYPROPYLENE
81051AB	Socket P40 demountable 2P+E 16A ant. BK	POLYPROPYLENE
81070AB	Socket DE demountable 2P+E 16A ant. WH	POLYPROPYLENE
81085AB	Adaptor S31 16A-1s.UK w/ph holder ant.WH	POLYCARBONATE
82120AB	Adaptor S11-1P30 outlet ant. WH	POLYPROPYLENE
82210AB	Adaptor S11-1P30+2P11 sock. vert ant. WH	POLYCARBONATE
82220AB	Flat adaptor S17-3P17/11 outlets ant. WH	POLYCARBONATE
82230AB	Adaptor S31-1P40+2P17/11 out.vert ant.WH	POLYCARBONATE
82240AB	Adaptor S17-1P40+2P17/11 out.vert ant.WH	POLYCARBONATE
82250AB	Flat adaptor S11-3P11 outlets ant. WH	POLYCARBONATE
82560AB	Socket P11 demountable Easy ant. WH	POLYCARBONATE
82570AB	Socket P17/11 demountable Easy ant. WH	POLYCARBONATE
92120AB	Lin.p/cord 3m 3G1 S11+P11 ant. WH	PVC
92200AB	Lin.p/cord 5m 3G1 S11+P11 ant. WH	PVC
92201AB	Lin.p/cord 5m 3G1 S11+P11 ant. BK	PVC
92210AB	Lin.p/cord 3m 3G1 S31+s.DE ant. WH	PVC
92650AB	Lin.p/cord 3m 3G1 S17+P40 ant. WH	PVC
92660AB	Lin.p/cord 5m 3G1 S17+P40 ant. WH	PVC
92661AB	Lin.p/cord 5m 3G1 S17+P40 ant. BK	PVC
92690AB	Lin.p/cord 3m 3G1 S17+P17/11 ant. WH	PVC
92691AB	Lin.p/cord 3m 3G1 S17+P17/11 ant. BK	PVC
92700AB	Lin.p/cord 5m 3G1 S17+P17/11 ant. WH	PVC
92701AB	Lin.p/cord 5m 3G1 S17+P17/11 ant. BK	PVC
92710AB	Lin.p/cord 8m 3G1 S11+P11 ant. WH	PVC
93270AB	Coil 10m cable H05VV-F 3G1 ant. WH	PVC
93275AB	Coil 5m cable H05VV-F 3G1 ant. WH	PVC
93290AB	Coil 10m cable H05VV-F 3G1,5 ant. WH	PVC
93295AB	Coil 5m cable H05VV-F 3G1,5 ant. WH	PVC

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Web: <http://www.fanton.com>  
info@fanton.com

P.I./VAT - IT 02353470285

Tel. +39.049.95.97.911  
Fax +39.049.95.00.311  
amministrazione@pec.fanton.com