

EFFICACY TESTS OF ALTRET HSC (Concentrated):

Product: - TRENDS HSC (Concentrated)

Sample Code - 2018 AR 02

Protocol - As per QC/ARD- Microb Detention

Device -Dip Slide/ Qualitative Analysis

Residence time - 2-4 minutes

Condition - Statics

Dilution: - 10 ml in 1 liter

Temp: - Ambient

Date of Testing - April 30th to May 2nd 2018

Sr. No.	Bacteria Name	Textile substrate	Result	
			Blank	With HSC (Concentrated)
Surface: Steel				
1	Yeast	Non-Woven Fabric	1-2 Colony (Spot) (10^2)	No Colony ($<10^2$)
		Micro-Fiber	1-2 Colony (Spot) (10^2)	No Colony ($<10^2$)
		Cotton Swab	1-2 Colony (Spot) (10^2)	No Colony ($<10^2$)
2	Fungi	Non-Woven Fabric	8-10 Colony (Spot) (10^3)	No Colony ($<10^2$)
		Micro-Fiber	8-10 Colony (Spot) (10^3)	No Colony ($<10^2$)
		Cotton Swab	8-10 Colony (Spot) (10^3)	No Colony ($<10^2$)
3	Escherichia coli (E. coli)	Non-Woven Fabric	25-30 Colony (Spot) (10^4)	1 Colony ($<10^2$)
		Micro-Fiber	25-30 Colony (Spot) (10^4)	1 Colony ($<10^2$)
		Cotton Swab	25-30 Colony (Spot) (10^4)	1 Colony ($<10^2$)
4	Pseudomonas	Non-Woven Fabric	40-50 Colony (Spot) (10^4)	No Colony ($<10^2$)
		Micro-Fiber	40-50 Colony (Spot) (10^4)	No Colony ($<10^2$)
		Cotton Swab	40-50 Colony (Spot) (10^4)	No Colony ($<10^2$)
5	Staphylococcus	Non-Woven Fabric	Present	Absent
		Micro-Fiber	Present	Absent
		Cotton Swab	Present	Absent
Surface: Ceramic Tiles				
1	Yeast	Non-Woven Fabric	2-3 Colony (Spot) (10^2)	No Colony ($<10^2$)
		Micro-Fiber	2-3 Colony (Spot) (10^2)	No Colony ($<10^2$)
		Cotton Swab	2-3 Colony (Spot) (10^2)	No Colony ($<10^2$)
2	Fungi	Non-Woven Fabric	10-15 Colony (Spot) (10^3)	No Colony ($<10^2$)

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		Micro-Fiber	10-15 Colony (Spot) (10^3)	No Colony ($<10^2$)
		Cotton Swab	10-15 Colony (Spot) (10^3)	No Colony ($<10^2$)
3	Escherichia coli (E. coli)	Non-Woven Fabric	35-40 Colony (Spot) (10^4)	1 Colony ($<10^2$)
		Micro-Fiber	35-40 Colony (Spot) (10^4)	1 Colony ($<10^2$)
		Cotton Swab	35-40 Colony (Spot) (10^4)	1 Colony ($<10^2$)
4	Pseudomonas	Non-Woven Fabric	45-50 Colony (Spot) (10^4)	No Colony ($<10^2$)
		Micro-Fiber	35-40 Colony (Spot) (10^4)	No Colony ($<10^2$)
		Cotton Swab	35-40 Colony (Spot) (10^4)	No Colony ($<10^2$)
5	Staphylococcus	Non-Woven Fabric	Present	Absent
		Micro-Fiber	Present	Absent
		Cotton Swab	Present	Absent
Surface: Glass Slide				
1	Yeast	Non-Woven Fabric	4-5 Colony (Spot) (10^2)	No Colony ($<10^2$)
		Micro-Fiber	4-5 Colony (Spot) (10^2)	No Colony ($<10^2$)
		Cotton Swab	4-5 Colony (Spot) (10^2)	No Colony ($<10^2$)
2	Fungi	Non-Woven Fabric	15-20 Colony (Spot) (10^3)	No Colony ($<10^2$)
		Micro-Fiber	15-20 Colony (Spot) (10^3)	No Colony ($<10^2$)
		Cotton Swab	15-20 Colony (Spot) (10^3)	No Colony ($<10^2$)
3	Escherichia coli (E. coli)	Non-Woven Fabric	40-45 Colony (Spot) (10^4)	1 Colony ($<10^2$)
		Micro-Fiber	40-45 Colony (Spot) (10^4)	1 Colony ($<10^2$)
		Cotton Swab	40-45 Colony (Spot) (10^4)	1 Colony ($<10^2$)
4	Pseudomonas	Non-Woven Fabric	50-55 Colony (Spot) (10^4)	No Colony ($<10^2$)
		Micro-Fiber	50-55 Colony (Spot) (10^4)	No Colony ($<10^2$)
		Cotton Swab	50-55 Colony (Spot) (10^4)	No Colony ($<10^2$)
5	Staphylococcus	Non-Woven Fabric	Present	Absent
		Micro-Fiber	Present	Absent
		Cotton Swab	Present	Absent

Conclusion: - HSC (Concentrated) passes various Microb test with satisfactory result.

Analysis Carried Out By: Madhusudan Bhavdankar

**Authorized Signatory,
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Quality & Personal Manager**

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