

Hand Shields' active ingredient, BZK, kills 99.9% of illness-causing germs* on contact. Listed are the most prevalent bacterial pathogens tested.



Ca mpyl obacter jejuni	Listeria monocytogenes	Shigella sonnei		
Candida a Ibicans	Ps e u do mo na sa e ruginosa	Staphylococcus aure us		
Clostridium difficile	Sal monella choleraesuis serotype enteritidis	Staphylococcus epidermidis		
Enterococcus faecalis	Salmonella choleraesuis serotype paratyphi	Streptococcus pneumonia		
Vancomycin Resistant (VRE)	Salmonella choleraesuis s erotype pullorum	Streptococcus pyogenes		
Es cherichia coli	Sal monella choleraesuis s erotype typhimurium	Vi bri o cholera		
Es che richia coli 0157:H7	Sal monella typhi	Xanthomonas a xonopadis (Citrus Canker)		
Klebsiella pneumoniae	Shigella dysenteriae Yersinia entero colitica			
NDM-1 positive	Shigella flexneri			

Time Kill Assay - American Society for Testing and Materials (ASTM). E2315-03. Guide for Assessment of Micobiocidal Activity Using a Kill-Time Procedure, Volume 11.05, Copyright 2005 ASTM International.

• *Kills 99.9% of most common germs that may cause illness.





EFFICACY STUDY DATA

Hand Santizer Product	Lot #	Active Ingredient	15 Seconds	30 Seconds	45 Seconds	1 Hour	4 Hours	8 Hours	24 Hours
Hand Shield	#21 16	.1% Benzalkonium Chloride (BZK)	0	0	0	0	0	8	16
The Leading Advanced Hand Sanitizer Gel	#108722	70% Ethyl Alcohol	34	67	143	409	634	192	290

ATP Levels of Clean	ATP Count	Description	
Utra Clean	0-10	Sterile surfaces and food prep areas	
Very Clean	11-30	Critical touch points	
Good Clean	31-80	Floor requirement, and typical microfiber tow el performance	
Somewhat Clean	81-200	Surface should be cleaned and has some risk of contamination from disease-causing bacteria	
Dirty	201-500	Surface needs cleanino and has medium risk of contamination from disease-causino bacteria	
Very Dirty	501-1000	Surface needs cleaning and has medium to high risk of contamination from disease-causing bacteria	
Filthy	>1000	Surface needs cleanino and has high risk of contamination from disease-causino bacteria	

The detection of adenosine triphosphate (ATP). the universal unit of energy in all microbial living cells.indicates the presence of biological matter. and determines if surfaces are clean. While most hospitals use the recommendations above, it is possible to create custom limit for test locations. For detailed instructions on establishing Pass/Fail limits or for using Hygiena's AT P cleaning verification system, visit www.hygiena.com.