

The Effects of Commonly Used Sanitizers on 3M™ Clean-Trace™ Surface ATP Tests

In general, the best method for preventing sanitizers from affecting ATP test results is to test your clean surfaces after cleaning and before sanitizing those surfaces. This Tech Bulletin describes the results of an internal 3M study that was conducted to determine the possible effects of various sanitizers on the activity of 3M™ Clean-Trace™ Surface ATP Tests if you test your clean surfaces after sanitizing those surfaces. The results of this study showed that commonly used sanitizers used at the working strength recommended by the manufacturers were found to not interfere with 3M Clean-Trace Surface ATP Tests.

In this study, 10 microliters of each sanitizer was diluted to the working strength recommended by the vendor, and was pipetted onto the swab bud of a 3M Clean-Trace Surface ATP Test followed by 10 microliters of 3M™ Clean-Trace™ Surface Positive Control. The test was then activated and read using a 3M™ Clean-Trace™ NG Luminometer. These RLU test results were compared to the RLU test results of a control test that was tested at the same time with the ATP positive control only. If this comparison showed the RLU test result for the test with sanitizer added was at least 75% of the control test, there was no interference caused by the sanitizer at the indicated concentration. Table 1 below lists the results of the study:

Sanitizer	Concentration	3M Clean-Trace Surface ATP Remaining Activity (75% minimum)
Holchem® Perbac OPD™ contains a blend of peracetic acid, acetic acid and hydrogen peroxide	2% 200 ppm active peracetic acid - working strength	79.8% - No interference
	4% 400 ppm active peracetic acid - working strength	77.6% - No interference
Holchem® Terminol™ is a blend of Quaternary Ammonium Compounds (QAC) and amphoteric biocides	1% - working strength	97.5% - No interference
	4% - working strength	112.6% - No interference
Sodium hypochlorite is a chlorine based sanitizer	50ppm active chlorine - working strength	94.1% - No interference
	200ppm active chlorine - working strength	88.2% - No interference

Holchem© Maxifoam Plus™ is an alkaline foam detergent that is rinsed off after use	4% - working strength	85.3% - No interference
Crystel Diamond™ (VWR) is an amphoteric disinfectant which contains other surface active agents	2% - working strength	97.7% - No interference

Table 1

Sanitizer list:

1. Holchem© Perbac OPD™ product code HLP18, batch #NA (exp Jul15)
2. Holchem© Terminol™ HLT1 batch #NA (exp Jul15)
3. Sodium hypochlorite Sigma-Aldrich® product code 425044 (10 – 15% active Chlorine) #STBD2773V
4. Holchem© Maxifoam Plus™ batch #NA (exp08/15)
5. Crystel Diamond™ amphoteric disinfectant (VWR® product code TRSTCRY106), batch #P225600 (exp09/14)



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