

Heat Stability of AllerSnap™ Protein Residue Test

Introduction

AllerSnap™ is a ready-to-use, high sensitivity, rapid test for detection of protein residues on surfaces after cleaning. Hygiena has studied the effects of storing devices under high heat to determine device performance.

Method

Devices were stored in their packaging at a constant temperature of 37°C (98.6°F) for up to four weeks. Control devices were stored at 4°C over the same period. Devices were tested at multiple timepoints by inoculating swabs with a known amount of bovine albumin serum (BSA) protein standard around the limit of detection. Devices were activated and incubated at 55°C for 15 minutes. Devices were studied for the loss of detection of the protein sample.

Results and Discussion

AllerSnap™ devices stored at 37°C and 4°C detected BSA at low concentrations across all timepoints.

AllerSnap™ devices stored at 37°C vs 4°C

Storage Temperature	37°C	4°C
Storage Time (Days)	5 µg BSA per swab	5 µg BSA per swab
0	Detected	Detected
7	Detected	Detected
14	Detected	Detected
21	Detected	Detected
28	Detected	Detected

Conclusion

Devices which endure temperature abuse above 4°C for up to 4 weeks performed equivalently to devices stored under appropriate conditions.