

# Heat Stability of PRO-Clean<sup>™</sup> Protein Residue Test

### Introduction

PRO-Clean<sup>™</sup> is a ready-to-use, high sensitivity, rapid test for detection of protein residues on surfaces after cleaning. Hygiena<sup>™</sup> 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 22°C for 10 minutes. Devices were studied for the loss of detection of the protein sample.

#### **Results and Discussion**

PRO-Clean<sup>™</sup> devices stored at 37°C and 4°C detected BSA at low concentrations across all timepoints.

Table 1. PRO-Clean <sup>™</sup> Devices Stored at 37°C vs 4°C		
Storage Temperature	37°C	4°C
Storage Time (Days)	20µg BSA per swab	20µg BSA per swab
0	Detected	Detected
7	Detected	Detected
14	Detected	Detected
21	Detected	Detected
28	Detected	Detected

# Conclusions

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