

## Sample Stability and Delayed Luminometer Testing

### Objective

To determine the maximum length of time, between sample collection and swab activation, a sample will remain stable on SuperSnap™ and UltraSnap™ ATP surface test swabs.

### Method

Performance of UltraSnap and SuperSnap ATP test devices on several samples was measured at hourly intervals (6 hours at room temperature).

**Table 1: Sample recovery using UltraSnap**

Time on swab (hours)	ATP Standard	2% Milk	Salad	Pizza (RTE)	Ground Beef
1	62%	96%	13%	85%	7%
2	51%	99%	5%	87%	3%
3	58%	98%	2%	84%	
4	55%	100%	3%	81%	
5		94%	2%	70%	
6		103%	2%	69%	

**Table 2: Sample recovery using SuperSnap**

Time on swab (hours)	ATP Standard	1% Milk	Salad	Pizza (RTE)	Ground Beef
1	70%	87%	78%	82%	49%
2	58%	91%	71%	79%	33%
3	51%	82%	59%	75%	24%
4	47%	87%	56%	66%	15%
5	54%	75%	42%	60%	9%
6		67%	30%	54%	5%

### Conclusions

Longer times between sample swabbing and luminometer testing resulted in significant reductions in RLUs, and raise the risk of false negative results. We recommend activation of test devices be conducted as soon as possible and no longer than 30 minutes after sample collection.