

Inter-laboratory Validation Tests Summary

Praecautio E.coli Swabs

First inter-laboratory test conducted – April 2018:

Bacterial count	Praecautio E.coli result Pos = Positive for E.coli Neg = Negative for E.coli	SANAS accredited laboratory result (number of bacteria isolated)
High	Pos	3900
Low	Pos	<10

Conclusion

These preliminary tests indicated that the Praecautio swabs matched the SANAS accredited tests in terms of being able to detect E.coli in a sample. The “<10” result for the low count is a limit of the SANAS test. In this case, no bacterial growth was obtained. This indicates that the Praecautio swabs are more sensitive than the SANAS accredited test in that they can pick up less than 10 bacteria in a sample whereas the SANAS accredited test is unable to.

Second inter-laboratory test conducted – July 2018:

Number of Bacteria Colony forming units (bacteria) per ml of sample	Praecautio E.coli result (Duplicate swabs were taken) Pos = Positive for E.coli Neg = Negative for E.coli		SANAS accredited laboratory result
	18 hours incubation		
2.5 million	Pos	Pos	E.coli isolated
25 050	Pos	Pos	E.coli isolated
250	Pos	Pos	E.coli isolated
25	Pos	Neg	E.coli not isolated

Conclusion

The Praecautio E.coli swabs matched up to the SANAS accredited test. At low concentrations, the Praecautio swabs are able to detect E.coli, whereas the SANAS accredited test was not. They are therefore more sensitive than the SANAS accredited test.