

TSC SwabSURE *Listeria* spp. Pathogen Swab Validation
and Comparison to Microgen Path-Chek *Listeria*

Test Report

Client Details:	Technical Service Consultants
Client Contact Name:	Steven Trenchard
Client Email:	steve.trenchard@tscswabs.co.uk
Name of Test Product:	SwabSURE <i>Listeria</i>
Date of Report	16/08/2022

Sample Details

Manufacturer/ Supplier:	Technical Service Consultants
Product Storage Condition:	Refrigerated
Batch Number:	SwabSURE SS-L02 65532 Path-Chek PC080 64799

Melbec Reference Number:	43139.1 (swabSURE) 43139.2 (Path-Chek)
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Expiry:	TSC SwabSURE 2023-06 Microgen Path-Chek 2023-02
Date Product Received:	22/06/2022
Date Test carried out:	26/06/2022 (+ve), 5/07/2022 (-ve)

Test conditions

Incubation temp:	25°C +/- 1°C
Incubation time:	18, 24, and 48hrs

Test Results

Test data: TSC SwabSURE (REF 43139.1)

Test data: Microgen Path-Chek vials (REF 43139.2)

TARGET/POSITIVE ORGANISMS – LOW CONCENTRATION

		18HRS RESULT		24HRS RESULT		48HRS RESULT	
Organism	Inoculum (CFUs)	SwabSURE	PathChek	SwabSURE	PathChek	SwabSURE	PathChek
<i>Listeria ivanovii</i> NCTC 11007	11	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	1/2 Pos
<i>Listeria innocua</i> NCTC 11288	5	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 11994	2	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 13372	9	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 7973	16	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 4883	6	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 12426	8	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 12427	12	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 5105	5	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos

Pos = Colour change from Yellow to Black

Neg = No colour change (remained Yellow).

NON-TARGET/ FALSE POSITIVE ORGANISMS – LOW CONCENTRATION

		18HRS RESULT		24HRS RESULT		48HRS RESULT	
Organism	Inoculum (CFUs)	SwabSURE	PathChek	SwabSURE	PathChek	SwabSURE	PathChek
<i>Enterococcus faecium</i> NCTC 7171	120	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Bacillus cereus</i> NCTC 10320	250	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Bacillus subtilis</i> NCTC 10400	46	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg

Pos = Colour change from Yellow to Black

Neg = No colour change (remained Yellow).

NON-TARGET/NEGATIVE ORGANISMS – LOW CONCENTRATION

		18HRS RESULT		24HRS RESULT		48HRS RESULT	
Organism	Inoculum (CFUs)	SwabSURE	PathChek	SwabSURE	PathChek	SwabSURE	PathChek
<i>Escherichia coli</i> NCTC 9001	194	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Staphylococcus epidermidis</i> NCTC13360	111	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Serratia marcescens</i> NCTC 13382	538	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Pseudomonas aeruginosa</i> NCTC13359	62	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg

Pos = Colour change from Yellow to Black

Neg = No colour change (remained Yellow).

TARGET/ POSITIVE ORGANISMS – HIGH CONCENTRATION

		18HRS RESULT		24HRS RESULT		48HRS RESULT	
Organism	Inoculum (CFUs)	SwabSURE	PathChek	SwabSURE	PathChek	SwabSURE	PathChek
<i>Listeria ivanovii</i> NCTC 11007	91	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria innocua</i> NCTC 11288	43	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 11994	41	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 13372	53	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 7973	112	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 4883	68	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 12426	81	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 12427	110	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 5105	48	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos

Pos = Colour change from Yellow to Black

Neg = No colour change (remained Yellow).

NON-TARGET/ FALSE POSITIVE ORGANISMS – HIGH CONCENTRATION

		18HRS RESULT		24HRS RESULT		48HRS RESULT	
Organism	Inoculum (CFUs)	SwabSURE	PathChek	SwabSURE	PathChek	SwabSURE	PathChek
<i>Enterococcus faecium</i> NCTC 7171	1490	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Bacillus cereus</i> NCTC 10320	2500	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Bacillus subtilis</i> NCTC 10400	117	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg

Pos = Colour change from Yellow to Black

Neg = No colour change (remained Yellow).

NON-TARGET/NEGATIVE ORGANISMS – HIGH CONCENTRATION

		18HRS RESULT		24HRS RESULT		48HRS RESULT	
Organism	Inoculum (CFUs)	SwabSURE	PathChek	SwabSURE	PathChek	SwabSURE	PathChek
<i>Escherichia coli</i> NCTC 9001	1940	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Staphylococcus epidermidis</i> NCTC13360	640	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Serratia marcescens</i> NCTC 13382	5380	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Pseudomonas aeruginosa</i> NCTC13359	620	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg

Pos = Colour change from Yellow to Black

Neg = No colour change (remained Yellow).

Summary of Results

This test shows that SwabSURE product is equivalent to the Path-Chek product as results are consistent and give good reproducibility. SwabSURE did produce 1 more positive than Path-Chek during this test.

Sensitivity and specificity is comparable across brands and all false positives and potential background flora have not changed colour demonstrating inhibition for upto 48hrs.

Other temperature tests to follow.

**TSC SwabSURE Listeria Swab Validation & Comparison to Microgen Path-Chek
Listeria Product**

Test Report

Clients Details:	Technical Service Consultants
Client Contact Name:	Steven Trenchard
Client Email:	steve.trenchard@tscswabs.co.uk
Name of Test Product:	SwabSURE
Date of Report:	13/09/2022

Sample Details

Manufacturer/Supplier:	Technical Service Consultants
Product Storage Condition:	Refrigerated

Batch Number:	SwabSURE SS-L02 65532 Path-Chek PC080 64799
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Melbec Reference Number	43139a.1 (SwabSURE) 43139a.2 (Path-Chek)
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Expiry:	TSC SwabSURE 2023-06 Microgen Path-Chek 2023-05
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Date Product Received:	23/08/2022
Date Test carried out:	31/08/2022

Test conditions

Incubation temp:	30±1°C
Incubation time:	18, 24 and 48hours

Test Results

Test data: TSC SwabSURE (REF 43139a.1)

Test data: Microgen Path-Chek vials (REF 43139a.2)

TARGET/POSITIVE ORGANISMS – LOW CONCENTRATION

		18HRS RESULT		24HRS RESULT		48HRS RESULT	
Organism	Inoculum (CFUs)	SwabSURE	PathChek	SwabSURE	PathChek	SwabSURE	PathChek
<i>Listeria ivanovii</i> NCTC 11007	15	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria innocua</i> NCTC 11288	13	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 11994	15	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 13372	14	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 7973	11	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 4883	9	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 12426	10	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 12427	7	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 5105	9	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos

Pos = Colour change from Yellow to Black

Neg = No colour change (remained Yellow).

NON-TARGET/ FALSE POSITIVE ORGANISMS – LOW CONCENTRATION

		18HRS RESULT		24HRS RESULT		48HRS RESULT	
Organism	Inoculum (CFUs)	SwabSURE	PathChek	SwabSURE	PathChek	SwabSURE	PathChek
<i>Enterococcus faecium</i> NCTC 7171	206	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Bacillus cereus</i> NCTC 10320	106	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Bacillus subtilis</i> NCTC 10400	64	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg

Pos = Colour change from Yellow to Black

Neg = No colour change (remained Yellow).

NON-TARGET/NEGATIVE ORGANISMS – LOW CONCENTRATION

		18HRS RESULT		24HRS RESULT		48HRS RESULT	
Organism	Inoculum (CFUs)	SwabSURE	PathChek	SwabSURE	PathChek	SwabSURE	PathChek
<i>Escherichia coli</i> NCTC 9001	31	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Staphylococcus epidermidis</i> NCTC 13360	99	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Serratia marcescens</i> NCTC 13382	80	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Pseudomonas aeruginosa</i> ATCC 15442	60	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg

Pos = Colour change from Yellow to Black

Neg = No colour change (remained Yellow).

TARGET/POSITIVE ORGANISMS – HIGH CONCENTRATION

		18HRS RESULT		24HRS RESULT		48HRS RESULT	
Organism	Inoculum (CFUs)	SwabSURE	PathChek	SwabSURE	PathChek	SwabSURE	PathChek
<i>Listeria ivanovii</i> NCTC 11007	60	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria innocua</i> NCTC 11288	53	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 11994	80	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 13372	43	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 7973	63	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 4883	87	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 12426	96	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 12427	74	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 5105	89	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos

Pos = Colour change from Yellow to Black

Neg = No colour change (remained Yellow).

NON-TARGET/ FALSE POSITIVE ORGANISMS – HIGH CONCENTRATION

		18HRS RESULT		24HRS RESULT		48HRS RESULT	
Organism	Inoculum (CFUs)	SwabSURE	PathChek	SwabSURE	PathChek	SwabSURE	PathChek
<i>Enterococcus faecium</i> NCTC 7171	2060	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Bacillus cereus</i> NCTC 10320	1060	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Bacillus subtilis</i> NCTC 10400	640	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg

Pos = Colour change from Yellow to Black

Neg = No colour change (remained Yellow).

NON-TARGET/NEGATIVE ORGANISMS – HIGH CONCENTRATION

		18HRS RESULT		24HRS RESULT		48HRS RESULT	
Organism	Inoculum (CFUs)	SwabSURE	PathChek	SwabSURE	PathChek	SwabSURE	PathChek
<i>Escherichia coli</i> NCTC 9001	310	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Staphylococcus epidermidis</i> NCTC 13360	990	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Serratia marcescens</i> NCTC 13382	800	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Pseudomonas aeruginosa</i> ATCC 15442	600	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg

Pos = Colour change from Yellow to Black

Neg = No colour change (remained Yellow).

Results Summary

This test shows that SwabSURE product is equivalent to the Path-chek product as the results are consistent and give good reproducibility.

Sensitivity and specificity are comparable across brands with no false positives and all potential background flora not changing colour demonstrating inhibition for up to 48hrs.

**TSC SwabSURE Listeria Swab Validation & Comparison to Microgen PathChek
Listeria Product**

Test Report

Clients Details:	Technical Service Consultants
Client Contact Name:	Steven Trenchard
Client Email:	steve.trenchard@tscswabs.co.uk
Name of Test Product:	SwabSURE
Date of Report:	06/10/2022

Sample Details

Manufacturer/Supplier:	Technical Service Consultants
Product Storage Condition:	Refrigerated

Batch Number:	SwabSURE SS-L02 65532 Path-Chek PC080 64799
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Melbec Reference Number	43139a.1 (SwabSURE) 43139a.2 (PathChek)
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Expiry:	TSC SwabSURE 2023-06 Microgen PathChek 2023-05
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Date Product Received:	23/08/2022
Date Test carried out:	06/10/2022

Test conditions

Incubation temp:	36±1°C
Incubation time:	18, 24 and 48hours

Test Results

Test data: TSC SwabSURE (REF 43139a.1)

Test data: Microgen Path-Chek vials (REF 43139a.2)

TARGET/POSITIVE ORGANISMS – LOW CONCENTRATION

		18HRS RESULT		24HRS RESULT		48HRS RESULT	
Organism	Inoculum (CFUs)	SwabSURE	PathChek	SwabSURE	PathChek	SwabSURE	PathChek
<i>Listeria ivanovii</i> NCTC 11007	15	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria innocua</i> NCTC 11288	13	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 11994	15	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 13372	14	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 7973	11	2/2 Neg	2/2 Neg	1/2 Pos	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 4883	9	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 12426	10	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 12427	7	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 5105	9	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos	2/2 Pos	2/2 Pos

Pos = Colour change from Yellow to Black

Neg = No colour change (remained Yellow).

NON-TARGET/ FALSE POSITIVE ORGANISMS – LOW CONCENTRATION

		18HRS RESULT		24HRS RESULT		48HRS RESULT	
Organism	Inoculum (CFUs)	SwabSURE	PathChek	SwabSURE	PathChek	SwabSURE	PathChek
<i>Enterococcus faecium</i> NCTC 7171	206	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Bacillus cereus</i> NCTC 10320	106	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Bacillus subtilis</i> NCTC 10400	64	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg

Pos = Colour change from Yellow to Black

Neg = No colour change (remained Yellow).

NON-TARGET/NEGATIVE ORGANISMS – LOW CONCENTRATION

		18HRS RESULT		24HRS RESULT		48HRS RESULT	
Organism	Inoculum (CFUs)	SwabSURE	PathChek	SwabSURE	PathChek	SwabSURE	PathChek
<i>Escherichia coli</i> NCTC 9001	31	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Staphylococcus epidermidis</i> NCTC 13360	99	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Serratia marcescens</i> NCTC 13382	80	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Pseudomonas aeruginosa</i> ATCC 15442	60	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg

Pos = Colour change from Yellow to Black

Neg = No colour change (remained Yellow).

TARGET/POSITIVE ORGANISMS – HIGH CONCENTRATION

		18HRS RESULT		24HRS RESULT		48HRS RESULT	
Organism	Inoculum (CFUs)	SwabSURE	PathChek	SwabSURE	PathChek	SwabSURE	PathChek
<i>Listeria ivanovii</i> NCTC 11007	60	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria innocua</i> NCTC 11288	53	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 11994	80	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 13372	43	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 7973	63	2/2 Neg	2/2 Neg	1/2 Pos	2/2 Neg	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 4883	87	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 12426	96	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 12427	74	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos	2/2 Pos	2/2 Pos
<i>Listeria monocytogenes</i> NCTC 5105	89	2/2 Neg	2/2 Neg	2/2 Pos	2/2 Pos	2/2 Pos	2/2 Pos

Pos = Colour change from Yellow to Black

Neg = No colour change (remained Yellow).

NON-TARGET/ FALSE POSITIVE ORGANISMS – HIGH CONCENTRATION

		18HRS RESULT		24HRS RESULT		48HRS RESULT	
Organism	Inoculum (CFUs)	SwabSURE	PathChek	SwabSURE	PathChek	SwabSURE	PathChek
<i>Enterococcus faecium</i> NCTC 7171	2060	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Bacillus cereus</i> NCTC 10320	1060	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Bacillus subtilis</i> NCTC 10400	640	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg

Pos = Colour change from Yellow to Black

Neg = No colour change (remained Yellow).

NON-TARGET/NEGATIVE ORGANISMS – HIGH CONCENTRATION

		18HRS RESULT		24HRS RESULT		48HRS RESULT	
Organism	Inoculum (CFUs)	SwabSURE	PathChek	SwabSURE	PathChek	SwabSURE	PathChek
<i>Escherichia coli</i> NCTC 9001	310	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Staphylococcus epidermidis</i> NCTC 13360	990	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Serratia marcescens</i> NCTC 13382	800	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg
<i>Pseudomonas aeruginosa</i> ATCC 15442	600	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg	1/1 Neg

Pos = Colour change from Yellow to Black

Neg = No colour change (remained Yellow).

Results Summary

This test shows that SwabSURE product is equivalent to the Path-chek product as the results are consistent and give good reproducibility.

Sensitivity and specificity remained reliable even with increase in temperature and results were comparable across brands with no false positives and all potential background flora not changing colour demonstrating inhibition for up to 48hrs.

Using a temperature of 36°C increased the number of positives observed at 24 hours with the remaining target organisms suspected to be positive between 25-47 hours due to the temperature enhancing growth and clear positives given at 48 hours. Only further assessment across these hours would confirm exact time/hours required.

Report authorised by:



Name: Liam Stephens

Position: Technical Manager