

STANTON TERRITORIAL HEALTH AUTHORITY

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-April-2018	20-April-2016		
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Yellowknife, Northwest Territories

PURPOSE:

Certain bacterial species produce a thermostable, extracellular, diffusible protein that acts synergistically with the beta-lysin produced by *Staphylococcus aureus* to produce a zone of enhanced hemolysis on blood agar. This protein is named the CAMP factor. A positive CAMP reaction shows enhanced hemolysis in the form of an arrowhead or flame-shape when the 2 isolates are placed perpendicular to each other. This test is useful in the identification of *Streptococcus agalactiae* and *Listeria monocytogenes*.

REAGENTS and/or MEDIA:

• Blood Agar Plate

SUPPLIES:

• Sterile loop

SPECIAL SAFETY PRECAUTIONS:

Containment Level 2 facilities, equipment, and operational practices for work involving infectious or potentially infectious materials or cultures.

- Lab gown must be worn when performing activities with potential pathogens.
- Gloves must be worn when direct skin contact with infected materials is unavoidable.
- Eye protection must be used where there is a known or potential risk of exposure to splashes.

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- All procedures that may produce aerosols, or involve high concentrations or large volumes should be conducted in a biological safety cabinet (BSC).
- The use of needles, syringes, and other sharp objects should be strictly limited.

QUALITY CONTROL:

Performed each time a test is performed:

•	Positive Control:	S.agalactiae	ATCC12386
•	Negative Control:	S.pyogenes	ATCC19615
•	Beta hemolysin control:	S.aureus	ATCC25923

PROCEDURE INSTRUCTIONS:

Step	Action
Perfo	rming a CAMP Test
1	LIS CODE: ^CAMP
•	Streak S.aureus ATCC25923 in a straight line across the center of the plate
	Streak the unknown test organism perpendicular to the staphylococcal streak line
2	They should be approximately 2mm apart
	Label the reverse side of the plate, under the streak line, with the accession number
	and isolate number of the sample
2	Streak the positive control: S.agalactiae ATCC12386 perpendicular to the S.aureus
3	streak. Label the reverse side of the plate as "POS Control"
	Repeat with the negative control: S.pyogenes
	ATCC19615. Label the reverse side of the plate as
	"NEG Control"
4	
	TEST ORGANISM 🕈 🚽 HEGA TIVE CONTROL -
	S.pyogenes 19615

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	Incubate the plate overnight at 35°C in CO2
5	NOTE: For identification of a possible Listeria monocytogenes, it is recommended that
	the plate be incubated in ambient air at 35°C for 24 hours
6	Observe for hemolysis

INTERPRETATION OF RESULTS:



REFERENCES:

- Garcia, L. S. (n.d.). CAMP Factor Tests. *Clinical Microbiology Procedures Handbook, 3rd Ed*, pp. 3.17.8.1-3.17.8.4.
- American Society for Microbiology. (n.d.). CAMP Test Protocols. Retrieved October 23, 2013, from http://www.microbelibrary.org/component/resource/laboratory-test/3086-camptest-protocols

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REVISION HISTORY:

REVISION	DATE	Description of Change	REQUESTED BY
1.0	31Dec13	Initial Release	A.Darrach
2.0	31Mar16	Update of "Special Safety Precautions" to reflect risk assessment recommendations.	C. Russell

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