

# **SPS DISKS**

- For in vitro use only -

Catalogue No. DS65

Our SPS Disks can be used for the presumptive identification of *Peptostreptococcus anaerobius* based on its sensitivity to sodium polyanetholsulphonate (SPS).

Studies performed by Wideman et al. and Graves et al. showed that all strains of *Peptostreptococcus anaerobius* are inhibited by SPS, while other Grampositive cocci are resistant to SPS. The identification of *P. anaerobius* is significant since Wideman et al. found that *Peptostreptococcus anaerobius* may account for one-fifth to one-third of all Gram-positive cocci encountered in clinical specimens. Our SPS Disks contain 1-mg of sodium polyanetholsulphonate and when used as recommended all strains of *Peptostreptococcus anaerobius* give zones of inhibition ranging from 12 to 30-mm.

### **Recommended Procedure**

- 1. Obtain a pure, overnight culture of the test organism and make an inoculum suspension equivalent to a 0.5 McFarland standard.
- 2. Swab or streak a sample of the suspension onto a non-selective anaerobic blood agar plate or Wilkins-Chalgren Anaerobic Plate in three directions to give a heavy confluent growth.
- 3. Aseptically place a SPS Disk on the agar surface.
- 4. Incubate anaerobically at 35°C for 48 hours.
- 5. Measure the zone of inhibition around the disk to the nearest millimeter.

## **Interpretation of Results**

A zone of inhibition  $\geq 12$ -mm indicates SPS sensitivity (S), while a zone of inhibition <12-mm indicates resistance (R) to SPS.

Additional biochemical and/or serological tests should be performed on isolated colonies from pure culture in order to complete identification.

- Some strains of P. micros are sensitive to SPS. Microscopic differentiation is possible since P. micros appear as tiny cocci whereas cells of P. anaerobius appear as large coccobacilli
- To ensure the accuracy of the observed results, always run positive and negative controls along with the test organism

## **Quality Control**

<u>Organism</u>	Expected Results
Peptostreptococcus anaerobius	S
ATCC 27337	SPS-sensitive
Peptostreptococcus asaccharolyticus	R
ATCC 29743	SPS-resistant

### Storage and Shelf Life

Our SPS Disks should be stored at  $4^{\circ}$ C to  $8^{\circ}$ C, and protected from light. Under these conditions they have a shelf life of 26 weeks from the date of manufacture.

#### References

- 1. Balows A, Hausler WJ Herman KL et al. Manual of clinical microbiology. 5th ed. Washington, DC: ASM, 1991.
- 2. Wideman PA, Vargo VL, Citronbaum D and Finegold SM. J. Clin. Micro. 4 (1976).
- 3. Graves MH, Morello JA and Knocka FE. Appl. Microbiol. 27 (1974).

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