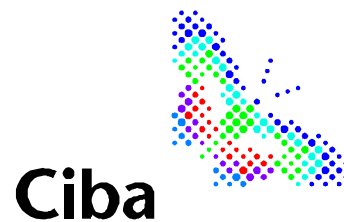


Ciba Spezialitätenchemie  
Pfersee GmbH



*Technical Report*

*Customer: Clipso Production*

*Topic: Antimicrobial Test*

**ELW TE:**

**05 / Clipso-Ciba atest**

**Date:**

**22.12.2005**

**Account Manager:**

**M. Poirson**

## Agar Diffusions Test (Method: CG147)

**Samples:** 1 fabric treated with 4 % TINOSAN® NW500

1. Coated side initial
2. woven side initial

**Bacteria:** Staphylococcus aureus ATCC 9144  
Escherichia coli NCTC 8196

**Medium:** Casein soy meal pepton agar containing bacteria from overnight cultures  
(bacteria dilution factor: S. aureus 1:500; E. coli 1:1000)

**Incubation:** 18–24 hours at 37°C (bacteria)

**Results:** (All tests were performed twice and both results are given in the table)

Sample	Staphylococcus aureus ATCC 9144			Escherichia coli NCTC 8196		
	ZI	VR	activity	ZI	VR	activity
1	18/17	4	excellent	8/5	4	excellent
2	16/12	4	excellent	8/9	4	excellent

**Legend:** ZI = zone of inhibition  
VR = Vinson rating, for growth under the disc, L.J. Vinson et al. J.Pharm. Sci. 50, 827–830, 1961  
0 = strong growth (no activity)  
4 = no growth (good activity)

### Conclusion:

The treated fabric sample showed initial excellent antimicrobial activity against both bacteria in the agar diffusion test.

## Typical photographs of agar plates showing zone of inhibition

*Please note that the photos are only for illustration purposes and were not taken from samples related to this study. However, similar photos could have been obtained if scans would have been made for the good current samples.*

Staphylococcus aureus ATCC 9144



Escherichia coli NCTC 8196



These ratings were determined as careful as possible in our laboratory. They are guidelines for bulk work, but they provide neither hard- and-fast information about, nor a guarantee of the practical performance of the materials tested.