

Advanced Agro – Tech
Plot No. A – 387, Road No. 28,
Ram Nagar , Wagle Estate,
Then (W) - 400604

Report No. : 11591M
Date of Report : 22.12.09
Sample
Submission Date: 14.12.09
Date of analysis : 17.12.09 –
19.12.09

Kind Attn.: Ms. Rupali Hande

Test Report

Introduction: We were submitted five samples of plastic pieces and asked to check its antibacterial activity using agar diffusion plate test – SN 195 920. The client had sent the method and requested to carry out the same.

Test Method: Agar diffusion test : SN 195 920 (Submitted by client)

Sample Reference:

11591M/1 – A – Sheet – cn, Ref.: AAT/A/24412

11591M/2 – B – Tray – cn, Ref.: AAT/B/24512

11591M/3 – N – Ag – P – C (Sheet), Ref.: AAT/C/24612

11591M/4 – N – Ag – P – D (Tray 1), Ref.: AAT/D/24712

11591M/5 – N – Ag – P – E (Tray 2), Ref.: AAT/E/24812

Organisms:

- 1) *Staphylococcus aureus*
- 2) *Escherichia coli*



- Nutritional labeling
- Microbial profile
- Chemical analysis
- Shelf-life
- Vitamins & Minerals
- Residual Pesticides & Heavy metals
- Problem solving on-site
- Consultancy

Observations: Antibacterial activity for *S. aureus*

R. No.	Zone of Inhibition	Growth under the Piece	Growth on the Piece
11591M/1	Not Observed	Not Observed	Not Observed
11591M/2	Not Observed	Not Observed	Not Observed
11591M/3	Not Observed	Not Observed	Not Observed
11591M/4	Not Observed	Not Observed	Not Observed
11591M/5	Not Observed	Not Observed	Not Observed

Note:

Negative Blank – Media blank clear without any growth.

Positive Blank – Good growth of culture observed.

Observations: Antibacterial activity for *E. coli*

R. No.	Zone of Inhibition	Growth under the Piece	Growth on the Piece
11591M/1	Not Observed	Not Observed	Not Observed
11591M/2	Not Observed	Not Observed	Not Observed
11591M/3	Not Observed	Not Observed	Not Observed
11591M/4	Not Observed	Not Observed	Not Observed
11591M/5	Not Observed	Not Observed	Not Observed

Note:

Negative Blank – Media blank clear without any growth.

Positive Blank – Good growth of culture observed.



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Conclusion:

From the above observations, it can be concluded that the five samples of plastic pieces are fully protected against the growth of *E. coli* as well as *S. aureus* and shows a good antibacterial effect.

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Shafiq
AUTHORISED SIGNATORY

Nameeta
AUTHORISED SIGNATORY

- NOTE: 1. Tested sample(s) not drawn by the laboratory.
2. Test results relate to the submitted sample(s) only.
3. Test report shall not be reproduced except in full, without written approval of the laboratory.
4. **The tests marked with (*) are not accredited by NABL.**

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