

CERTIFICATE

This is to certify that this thesis “**CHARACTERIZATION AND THERAPEUTIC POTENTIAL OF ANTI-*HELICOBACTER PYLORI* BACTERIOCIN OF A LACTIC ACID BACTERIAL ISOLATE**” embodies the work carried out by **Ms. Neena Garg** herself under my supervision and that it is worthy of consideration for the award of the Ph.D. degree.

Dr. Baljinder Kaur

(Supervisor)

Assistant Professor

Department of Biotechnology,

Punjabi University, Patiala.

Day Month Year

Prof. Atul Sachdev

(Co-Supervisor)

Director

Govt. Medical College and Hospital,

Sector-32, Chandigarh.

Day Month Year

DECLARATION

I hereby affirm that the work presented in this thesis is exclusively my own and there are no collaborators. It does not contain any work for which a degree has been awarded by any other University/ Institution.

Day Month Year

Neena Garg
Research Scholar,
Department of Biotechnology,
Punjabi University, Patiala.

Day Month Year

Dr. Baljinder Kaur
(Supervisor)
Assistant Professor
Department of Biotechnology,
Punjabi University, Patiala.

Day Month Year

Prof. Atul Sachdev
(Co-Supervisor)
Director
Govt. Medical College and Hospital,
Sector-32, Chandigarh.