DECLARATION

This is to verify that the matter embodied in the present work entitled “Development of an electrochemical diagnostic method for determination of total cholesterol in serum” is based on my original research work. It has not been submitted in part or full for any degree or diploma of any other University.

My indebtedness to others in this work has been duly acknowledged at relevant places.

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Acknowledgment

The task of acknowledging the incalculable debt of appreciation, which is owned to many, is a very pleasing facet of thesis writing. First of all, I express deep sense of gratitude to the Almighty for giving me a chance into the wonderful world of science to do something for the welfare of the humanity. It gives me immense pleasure in thanking those who were associated with me in completion of this work. The writing of this thesis can be a lonely and isolating experience, yet it is obviously not possible without the personal and practical support of numerous people. This work is an effort that reveals incalculable lessons and experiences.

Words should be inadequate to convey my deepest gratitude to my supervisor Dr. Vikas, Centre for Biotechnology, MD University, Rohtak. With his sagacious advices, understanding, patience, enthusiasm, responsibility, vivid discussions, insight, sensibility, observation, rigor, and above all with his friendly nature, he helped me in completion of my Ph.D. work. Throughout, he provided encouragement, good company, and lots more. I shall consider it a privilege to have worked with him.

I am also thankful to HOD, Centre for Biotechnology for providing me basic infrastructure during period of my research work in the department.

I am thankful to Dr. P.K, Jaiwal, Dean, Life science, Prof. A.K, Chhillar for providing me specialized lab facilities and advice.

I am also thankful to all non-teaching staff of this department for their cooperation during this work.

I owe a deep gratitude towards Dr. Neeraj S. Dilbaghi, Prof. and Head, Department of Bio-Nanotechnology, GJU, Hisar, for providing me lab/instrument facilities, vivid discussion and suggestions.
It is a matter of diligence to convey my thanks to my lab-mates Ashish, Monika Dahiya, Vikas Dhull, Vikas Kumar, Puneet, Vineeta for their all time cooperation in the laboratory and valuable suggestions and moral support through the present research work. I am also thankful to all non-teaching staff of this department for their cooperation during this work.

My heartiest thank goes to my husband Manish Dahiya who made me strong in my weak times by showing his faith upon me. He was always there to bring a smile on my face when I was worried. He made this journey delightful and memorable.

I would also like to thank my loving daughter Dakshita who gave me so many smiles and bringing joy during my hectic schedule and difficult situations.

I also owe my pious duty to express my gratitude to my grand parents. I must confess that the completion of this work and even carrying out of this work would have been impossible without the encouragement, moral support and cooperation by my mummy-papa and my mother and father in law. I can never thank them enough to have my work possible.

My debt is special towards my dear brother Jitender who encouraged & energies me to complete this research task.

Finally, I again thank the Almighty who made so many to extend their helping hands in accomplishment of my work successfully.

Kusum lata
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BIBLIOGRAPHY
ABBREVIATIONS

AChE- Acetyl Cholinesterase
Au- Gold
BSA- Bovine Serum Albumin
ChE- cholesterol esterase
ChO- Cholesterol Oxidase
CL- Chemiluminescence
ChO- Cholesterol Oxidase
c-MWCNT-Carboxylated-Multi Walled Carbon Nanotubes
CNT- Carbon Nanotubes
CLEA- Cross-Linking Enzyme Aggregates
CLEC- Cross-Linking Enzyme Crystals
CV- Cyclic Voltammetry
DDW- Double Distilled Water
DEAE- Diethyl Amino ethyl
EDTA- Ethylenediaminetetraacetate
ELISA- Enzyme-linked Immunosorbant Assays
FIA- Flow Injection Analysis
FC- FolinCiocalteau
FTIR- Fourier Transform Infrared
GC- Gas Chromatography
H2O2-hydrogen peroxidase
HPLC- High performance liquid chromatography
HPTLC- High performance thin layer chromatography
HRP- horse reddish peroxidase

$I_{\text{max}}$- Maximal Current

$K_m$- Michaelis Constant

MS- Mass Spectrometer

NaCl- Sodium chloride

NP- Nanoparticles

OD- Optical Density

QDs- Quantum Dots

SDS-PAGE- Sodium Deodecyl Sulphate-Polyacrylamide Gel Electrophoresis

SWCNTs- Single Walled Carbon Nanotubes

TLC- Thin Layer Chromatography

TEM- Transmission Electron Microscopy

$V_{\text{max}}$- Maximal Velocity

XRD- X-ray Diffraction