

MASS TRANSFER STUDIES
IN A
PULSED COLUMN BIOREACTOR

by

V. V. P. S. MURTHY

Thesis submitted to the
Indian Institute of Technology, Delhi
For the award of the Degree of
DOCTOR OF PHILOSOPHY

Biochemical Engineering Research Centre
INDIAN INSTITUTE OF TECHNOLOGY, DELHI

Hauz Khas, New Delhi-110016

INDIA

July 1986

C E R T I F I C A T E

This is to certify that the thesis entitled, "Mass Transfer Studies in a Pulsed Column Bioreactor" submitted by Mr.V.V.P.S. Murthy has been prepared under our supervision in conformity with rules and regulations of the Indian Institute of Technology, Delhi. The research report and results presented in this thesis have not been submitted for any degree in any other university.

K.B. Ramachandran
(K.B. Ramachandran)

T.K. Ghose
(T.K. Ghose)

A C K N O W L E D G E M E N T S

I express my deep felt gratitude to my research supervisors, Prof. T.K. Ghose and Dr. K.B. Ramachandran for their guidance and keen interest shown throughout the progress of this research project. I would like to thank Prof.K.S. Gopalakrishnan, Prof. S.N. Mukhopadhyay and other faculty members for their encouragement.

I am highly indebted to my friends and colleagues whose company and cooperation enlivened my stay here. Special mention must be made to Malik, Pannir Selvam, Jyoti, Mehta and Ramesh. My sincere thanks to the technical and supporting staff of the Centre whose assistance helped me in overcoming several hold-ups.

Acknowledgements are due to M/s. Setric Genie Industriel, Toulouse, France for fabricating the bioreactor and to the Instrument Design Development Centre (I.D.D,C) for fabricating other accessories. I am grateful to "CSIR Centre for Biochemicals", for providing their steam generator.

My thanks are due to I.I.T., Delhi for the financial support. I would like to thank Mr.Iyer for his neat typing of this thesis. Last, but not the least, I thank my parents and my wife Mrinalini for their encouragement and cooperation.

V.V.P.S. Murthy
(V.V.P.S. Murthy)

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