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New from Falcon® Tissue Culture Labware.

Benefits of Primaria

- PRIMARIA enhances the attachment and growth of those fastidious primary and secondary passaged cells which before now could only be grown on collagen, or other attachment factor coated plastic. PRIMARIA is a positively charged artificial cell substratum.
- PRIMARIA eliminates the need to repeat cultures due to contamination of the labware during the attachment factor coating process. PRIMARIA is sterile and ready to use.
- PRIMARIA eliminates batch to batch surface coating inconsistencies because Falcon has quality control tested each lot for uniform surface chemistry.
- PRIMARIA allows for long term culture of primary cells which before have shown a tendency to peel up as attachment factor coatings are desorbed. PRIMARIA is a stable, surface modified plastic substrate.

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Surface-modified
Plastic Substrate for
Primary Cell Culture**

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PRIMARIA™

BIOTECHNOLOGY

Edited by C. F. PHELPS
and P. H. CLARKE

The fourteen contributions forming this volume were presented at a London meeting of the Biochemical Society including the Society's Forty-Eighth Symposium 'Biotechnology', in December 1982. With today's increasing pressures to develop latest laboratory findings into practical industrial processes as quickly as possible the chosen theme of this Symposium was a timely one. The papers represent up-to-date reports from international biochemists whose work is of direct relevance to the wide areas of interests concerned with biotechnology, together with glimpses of the early development of its techniques and a look at its exciting future.

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Preface. How Biotechnology Developed at University College London by **E. M. Crook**. *The Future of Biotechnology* by **P. Dunnill**. *Carbohydrate Transformations by Immobilized Cells* by **C. Bucke**. *Biological Halogenation and Epoxidation* by **S. L. Neidleman & J. Geigert**. *High-Productivity Alcohol Fermentations using Zymomonas mobilis* by **M. L. Skotnicki, R. G. Warr, A. E. Goodman, K. J. Lee & P. L. Rogers**. *The Problem of Lignin Biodegradation* by **L. Wallace, A. Paterson, A. McCarthy, U. Raeder, L. Ramsey, M. MacDonald, R. Haylock & P. Broda**. *Special Bacterial Polysaccharides and Polysaccharases* by **T. Harada**. *A New Era of Exploitation of Microbial Metabolites* by **A. L. Demain**. *Industrial Prospects for Thermophiles and Thermophilic Enzymes* by **B. S. Hartley & M. A. Payton**. *Anaerobic Fermentations – Some New Possibilities* by **J. G. Morris**. *Xenobiotic Degradation in Industrial Sewage: Haloaromatics as Target Substrates* by **H. J. Knackmuss**. *Genetic Analysis and Manipulation of Catabolic Pathways in Pseudomonas* by **P. R. Lehrbach & K. N. Timmis**. *Plant Cell Cloning and Culture Products* by **L. H. Jones**. *A Hybrid Promoter and Portable Shine-Dalgarno Regions of Escherichia coli* by **H. A. De Boer, L. J. Comstock, A. Hui, E. Wong & M. Vasser**.
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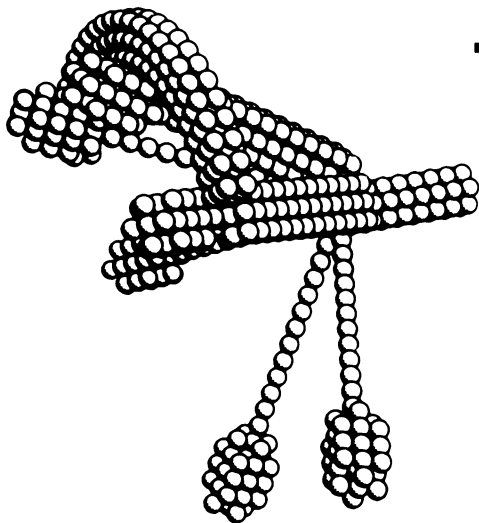
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