CONTENTS OF VOLUME 12

No. 3, May 1964

Airborne Microorganisms in Broiler Processing Plants. ANTHONY W. KOTULA AND JACK A. KINNER. .................................................. 179

Production of Penicillin Acylase. ATTILA SZENTIMAI. .................................................. 185

Survival of Shigella in Sewage. II. Effect of Glycerol on Shigella Bacteriophage. WEN LAN L. WANG, STUART G. DUNLOP, AND POLLY S. MUNSON. 188

Influence of Inorganic Phosphorus on Oxytetracycline Formation by Streptomyces rimosus. WALTER A. ZYGMUN. ........................................ 195

Selection of a Microbiological Corrosion System for Studying Effects on Structural Aluminum Alloys. H. G. HEDRICK, C. E. MILLER, J. E. HALKIAS, AND J. E. HILDEBRAND. ........................................ 197

Description and Treatment of a Pseudomonas Infection in White Catfish. F. P. MEYER AND J. D. COLLAR. ........................................ 201

Effect of Water Extracts of Carob Pods, Tannic Acid, and Their Derivatives on the Morphology and Growth of Microorganisms. Y. HENIS, H. TAGARI, AND R. VOLCANI. 204

Microbial Incorporation of Fatty Acids Derived From n-Alkanes Into Glycerides and Waxes. J. B. DAVIS. ........................................ 210


Effect of Bacterial Polysaccharide Accumulation on Infiltration of Water Through Sand. R. MITCHELL AND Z. NEVO. ........................................ 219

Isolation of Salmonellae From Food Samples. VI. Comparison of Methods for the Isolation of Salmonella From Egg Products. J. H. SILLIKER, R. H. DEEBEL, AND P. T. FAGAN. 224

Comparison of Sterilizing Properties of Formaldehyde-Methanol Solutions With Formaldehyde-Water Solutions. MYRA WILLARD AND ALICE ALEXANDER. ........................................ 229

Induction of Lambda-Bacteriophage in Escherichia coli as a Screening Test for Potential Antitumor Agents. BERNARD HEINEMANN AND ALMA J. HOWARD. ........................................ 234

Erythritol Production by a Yeastlike Fungus. G. J. HAJNY, J. H. SMITH, AND J. C. GARVER. 240

Factors in the Testing and Application of Algicides. GEORGE P. FITZGERALD. 247


Rifamycin. XXXIII. Isolation of Actinophages Active on Streptomyces mediterranei and Characteristics of Phage-Resistant Strains. J. E. THEIMANN, C. HENGELLER, A. VIGILIO, O. BUILLI, AND G. LICCIARDELLO. ........................................ 261

Rifamycin. XXXIV. Physicochemical Characterization of Actinophages Active on Streptomyces mediterranei. J. E. THEIMANN, C. HENGELLER, A. VIGILIO, O. BUILLI, AND G. LICCIARDELLO. ........................................ 269

Response of Clostridium perfringens Spores and Vegetative Cells to Temperature Variation. JAMES C. CANADA, DOROTHY H. STRONG AND LELIA G. SCOTT. ........................................ 273

Bacteriology of Spoilage of Fish Muscle. II. Incidence of Spoilers During Spoilage. R. ADAMS, L. FARRER, AND P. LERKE. ........................................ 277


Notes

Yellow Pigment Production by Pseudomonas geniculata in Maple Sap. A. E. WASSERMAN. ........................................ 287

No. 4, July 1964

Utilization of a Stable Isotope of Oxygen by Pseudomonas fluorescens. ROBERT M. ARTHUR. ........................................ 289

Amino Acid Composition of Bulk Protein of Euglena Grown in Waste Water. YEHUDA KOTT AND A. M. WACHS. ........................................ 292


Cellular Lipids of a Nocardia Grown on Propane and n-Butane. J. B. DAVIS. ........................................ 301

Cotton Closure as an Aeration Barrier in Shaken Flask Fermentations. JEROME S. SCHULTZ. ........................................ 305


Assay of Vitamins and Amino Acids With Cultured Tissue Cells and Antimetabolites. W. B. SAYCHUCK, M. E. MERRIMAN, AND W. L. LOCKHART. ........................................ 316
Sequential Formation and Accumulation of Primary and Secondary Shunt Metabolic Products in Claviceps purpurea. W. A. Taber .......................... 321


Production of Fungal Mycelial Protein in Submerged Culture of Soybean Whey. Helcio Falanghe, A. K. Smith, and J. J. Rackis .................................. 330

Production of Hydrogen Sulfide by Streptomyces odorifer. R. P. Collins and H. D. Gaines 335

Aerosols as a Source of Widespread Mycoplasma Contamination of Tissue Cultures. Robert C. O'Connell, Ruth G. Wittler, and John E. Faber ........................................ 337


Agar-Gel Precipitin Technique in Anthrax Antibody Determinations. John G. Ray, Jr., and Paul J. Kadull .................................................. 349

Improved Staphylococcus Medium No. 110. Stan A. Smuckler and Milo D. Appleman 355

Enzymes Induced in a Bacterium by Growth on Sodium Dodecyl Sulfate. Joy Williams and W. J. Payne .................................................. 360

Production of Antiserum for Staphylococcal Enterotoxin. E. P. Casman and R. W. Bennett 363

Production and Purification of Milligram Amounts of Foot-and-Mouth Disease Virus From Baby Hamster Kidney Cell Cultures. Jerome Polatnick and Howard L. Bachrach 368


Effect of Absence of Ciliate Protozoa From the Rumen on Microbial Activity and Growth of Leams. A. R. Abou Afkada and K. El-Shafy 384

No. 5, September 1964

Growth of Chlamydomonas musana in Presence of Different Synthetic Chelators. Frank M. Maciar .... 391

Occurrence of Gram-Positive Organisms Possessing Characteristics Similar to Those of Salmonella and the Practical Problem of Rapid and Definitive Salmonella Identification. J. H. Sulliker, R. H. Deibel, and J. Y. Chu ... 395

Preservation of T2 Bacteriophage With Liquid Nitrogen. Janet S. Meyle and J. Emerson Kempf .................. 400

Effect of Phenol on Bacillus subtilis Spores at Elevated Temperatures. A. D. Russell and Muriel Loosmore .................................................. 403

Environmental Stresses on Spore Populations of Bacillus stearothermophilus. M. L. Fields 407

Microbial Ecology of Activated Sludge. I. Dominant Bacteria. F. F. Dias and J. V. Bhat 412

Inactivation of Airborne Viruses by Ultraviolet Irradiation. Marcus M. Jensen .......................... 418

Rapid Differentiation Between Nocardia and Streptomyces by Paper Chromatography of Whole-Cell Hydrolysates. B. Becker, Mary P. Lechevalier, Ruth E. Gordon, and H. A. Lechevalier .................................................. 421

Chemical Sensitization of Clostridium botulinum Spores to Radiation in Meat. K. L. Krabbenhoft, D. A. Corlett, Jr., A. W. Anderson, and P. R. Elliker .................................................. 424

System for Detecting Inducers of Lysogenic Escherichia coli W1709(a) and Its Applicability as a Screen for Antineoplastic Antibodies. K. E. Price, R. E. Buck, and J. Lein 428

Manganese Requirement for Sporulation and Other Secondary Biosynthetic Processes of Bacillus. Eugene D. Weinberg .................................................. 436

Population Dynamics of Brucella on Solid Media. Irwin W. Gibby and Anna M. Gibby 442


Kinetics of Death of Bacterial Spores at Elevated Temperatures. Daniel I-C. Wang, Jeno Scharer, and Arthur E. Humphrey ............... 451

Notes

High-Potency Amyloglucosidase-Producing Mold of the Aspergillus niger Group. K. L. Smiley, M. C. Cadmus, D. E. Hensley, and A. A. Lagoda .................................................. 455

No. 6, November 1964

Delayed Appearance of Lactobacilli in the Intestines of Chicks Reared in a "New" Environment. L. N. Barre and R. F. Wiseman .... 457

Evaluation of Disinfectants for Hospital Housekeeping Use. W. E. Ostrander and L. J. Griffith .................. 460


Gelatinase Activity by Marine Fungi. M. A. Pisano, J. A. Mihalik, and G. R. Catalano 470
CONTENTS OF VOLUME 12

Studies on Bacterial Pyrogenicity. III. Specificity of the United States Pharmacopeia Rabbit Pyrogen Test. William J. Martin and Stanley Marcus ......................... 483
β-Glucosidase Activity in Phytopathogenic Bacteria. D. C. Hildebrand and Milton N. Schrot ................................................................. 487
Incidence of Salmonellae in Dressed Broiler-Fryer Chickens. Margy Woodburn .......... 492
Lipid Alterations During the Fermentation of Dill Pickles. C. S. Pederson, L. R. Mattick, F. A. Lee, and R. M. Butts ................................................................. 513
Polyphosphate Inhibition of Growth of Pseudomonads From Poultry Meat. R. Paul Elliott, Robert P. Straka, and John A. Garibaldi .............................................. 517
Pure Culture Fermentation of Brined Cucumbers. J. L. Etchells, R. N. Costilow, T. E. Anderson, and T. A. Bell ................................................................. 523
Medium for the Quantitative Recovery of Members of the Genera Pasteurella and Brucella. Victor J. Cabelly and Morris A. Levin ........................................ 536

Notes

Medium for Producing Cells of Lactic Acid Bacteria. R. N. Costilow, J. L. Etchells, and T. E. Anderson ................................................................. 539