

VOLUME 60

NUMBER 1

# JOURNAL OF BACTERIOLOGY

## *Contents for July*

Arthur Parker Hitchens: 1877-1949. CLAUDE P. BROWN.....	1
The Growth of the Reiter Strain of <i>Treponema pallidum</i> in the Chick Embryo. WILLIAM B. BEARDMORE AND MATT C. DODD.....	5
Factors Necessary for Maximum Growth of <i>Clostridium bifermentans</i> . LOUIS DE SPAIN SMITH AND HOWARD C. DOUGLAS.....	9
Mutants of <i>Escherichia coli</i> Requiring Methionine or Vitamin B <sub>12</sub> . BERNARD D. DAVIS AND ELIZABETH S. MINGIOLI.....	17
Observations on the Multiplication of Phages Affecting <i>Streptomyces griseus</i> . WALTER L. KOERBER, GEORGE GREENSPAN, AND A. F. LANGLYKKE.....	29
Biotin and Arginine Replacements in the Nutrition of <i>Clostridium sporogenes</i> . RICHARD W. THOMA AND W. H. PETERSON.....	39
Some Additional Nutritional Requirements of Certain Lactic Acid Bacteria. ESTELLE KITAY AND ESMOND E. SNELL.....	49
Nutritional Requirements of Treponemata. II. Pantothenic Acid, Glutamine, and Phenylalanine as Additional Growth-promoting Factors for the Reiter Treponeme. HARRY G. STEINMAN AND HARRY EAGLE....	57
The Effect of Virus Infection on the Utilization of Tryptophan by <i>Escherichia coli</i> . RUTH N. RAFF AND SEYMOUR S. COHEN.....	69
Demonstration of the Chromatinic Bodies of <i>Escherichia coli</i> and <i>Proteus vulgaris</i> with the Aid of the Phase Contrast Microscope. HENRY STEMPEL.....	81
Synthesis of Glutamic Acid and Glutamyl Polypeptide by <i>Bacillus anthracis</i> . I. Formation of Glutamic Acid by Transamination. RILEY D. HOUSEWRIGHT AND CURTIS B. THORNE.....	89
Notes:	
A New <i>Salmonella</i> Type: <i>Salmonella haifa</i> . RAYA SAPIRO AND WILLY HIRSCH.....	101
Phenol Production by Coliform Bacteria. O. B. WILLIAMS AND JACK D. ENGLISH.....	101
The Production of "Giant" Cells of <i>Pasteurella pestis</i> by Treatment with Camphor. WILLIAM D. WON.....	102
Control of Mold Contaminants on Solid Media by the Use of Actidione. G. BRIGGS PHILLIPS AND EVERETT HANEL, JR.....	104

(In writing to advertisers, please mention the journal—it helps.)