

THE JOURNAL OF ANTIBIOTICS

An International Journal Devoted to Research on
Antibiotics and Other Microbial Products

CONTENTS

Original Articles

- New glutarimide antibiotics, S-632-B₁ and B₂. I. Taxonomy of producing strain, fermentation and biological properties.
T. OTANI, T. SASAKI, Y. MINAMI, T. MARUNAKA & Q.-W. YU 647
- New glutarimide antibiotics, S-632-B₁ and B₂. II. Isolation, physico-chemical properties and chemical structure.
T. OTANI, Y. MINAMI, H. MATSUMOTO, T. MARUNAKA, Z.-X. LOU & Q.-W. YU 654
- Mureidomycins A~D, novel peptidylnucleoside antibiotics with spheroplast forming activity.
I. Taxonomy, fermentation, isolation and physico-chemical properties.
M. INUKAI, F. ISONO, S. TAKAHASHI, R. ENOKITA, Y. SAKAIDA & T. HANEISHI 662
- Mureidomycins A~D, novel peptidylnucleoside antibiotics with spheroplast forming activity. II. Structural elucidation.
F. ISONO, M. INUKAI, S. TAKAHASHI, T. HANEISHI, T. KINOSHITA & H. KUWANO 667
- Mureidomycins A~D, novel peptidylnucleoside antibiotics with spheroplast forming activity. III. Biological properties.
F. ISONO, T. KATAYAMA, M. INUKAI & T. HANEISHI 674
- New antitumor antibiotic, FR-900462. I. Taxonomy of the producing strain.
M. IWAMI, O. NAKAYAMA, H. TERANO & M. KOHSAKA 680
- New antitumor antibiotic, FR-900462. II. Production, isolation, characterization and biological activity.
M. IWAMI, O. NAKAYAMA, M. OKUHARA, H. TERANO & M. KOHSAKA 686
- Structural elucidation of aculeximycin. I. Further purification and glycosidic bond cleavage of aculeximycin.
H. MURATA, N. KOJIMA, K. HARADA, M. SUZUKI, T. IKEMOTO, T. SHIBUYA, T. HANEISHI & A. TORIKATA 691
- Structural elucidation of aculeximycin. II. Structures of carbohydrate moieties.
H. MURATA, K. HARADA, M. SUZUKI, T. IKEMOTO, T. SHIBUYA, T. HANEISHI & A. TORIKATA 701
- Metabolic products of microorganisms. 254. Structure of the new nikkomycins pseudo-Z and pseudo-J.
H. HEITSCH, W. A. KÖNIG, H. DECKER, C. BORMANN, H.-P. FIEDLER & H. ZÄHNER 711
- Chemical modification of hitachimycin. II. Synthesis and antitumor activities of carbonate derivatives.
K. SHIBATA, S. SATSUMABAYASHI, H. SANO, K. KOMIYAMA, Y. ZHI-BO, A. NAKAGAWA & S. ŌMURA 718
- Synthesis and biological activity of analogues of diazaquinomycin A, a new thymidylate synthase inhibitor.
K. TSUZUKI, T. YOKOZUKA, M. MURATA, H. TANAKA & S. ŌMURA 727
- Structure-activity relationships for unsaturated dialdehydes. 3. Mutagenic, antimicrobial, cytotoxic, and phytotoxic activities of merulidial derivatives.
H. ANKE, O. STERNER & W. STEGLICH 738
- Biosynthetic similarity between *Streptomyces tenjimariensis* and *Micromonospora olivasterospora* which produce fortimicin-group antibiotics.
K. HOTTA, M. MORIOKA & Y. OKAMI 745
- Oxidases involved in biosynthesis of macrolide antibiotic patulolides from *Penicillium urticae* S11R59.
D. RODPHAYA, T. NIHIRA & Y. YAMADA 752
- Mechanism of activation of the antitumor antibiotic neocarzinostatin by mercaptan and sodium borohydride.
O. D. HENSENS & I. H. GOLDBERG 761
- Identification of binding protein of virginiae butanolide C, an autoregulator in virginiamycin production, from *Streptomyces virginiae*.
H. S. KIM, T. NIHIRA, H. TADA, M. YANAGIMOTO & Y. YAMADA 769
- Selective killing of human T cell lymphotropic virus type I-transformed cells lines by a damavaricin Fc derivative.
S. ITO, N. YAMAMOTO, K. NOMOTO, K. SASAKI & K. ONODERA 779
- In vitro* immunosuppressive properties of spergualins to murine T cell response.
H. FUJII, T. TAKADA, K. NEMOTO, F. ABE, A. FUJII & T. TAKEUCHI 788
- L-658,310, a new injectable cephalosporin. I. *In vitro* antibacterial properties.
B. A. WEISSBERGER, G. K. ABRUZZO, R. A. FROMTLING, C. GILL, S. PONTICAS, M. E. VALIANT, D. L. SHUNGU & H. H. GADEBUSCH 795
- L-658,310, a new injectable cephalosporin. II. *In vitro* and *in vivo* interactions between L-658,310 and various aminoglycosides or ciprofloxacin *versus* clinical isolates of *Pseudomonas aeruginosa*.
M. E. VALIANT, E. C. GILFILLAN, H. H. GADEBUSCH & B. A. PELAK 807
- L-658,310, a new injectable cephalosporin. III. Experimental chemotherapeutics and pharmacokinetics in laboratory animals.
E. C. GILFILLAN, B. A. PELAK, B. A. WEISSBERGER, G. K. ABRUZZO, R. A. FROMTLING, J. A. BLAND, S. K. HADLEY & H. H. GADEBUSCH 815

Notes

- Screening of phosphatidylinositol kinase inhibitors from *Streptomyces*.
H. NISHIOKA, M. IMOTO, T. SAWA, M. HAMADA, H. NAGANAWA, T. TAKEUCHI & K. UMEZAWA 823
- Enzymic inactivation of lincosamide and macrolide antibiotics: Divalent metal cation and coenzyme specificities.
V. P. MARSHALL, W. F. LIGGETT & J. I. CIALDELLA 826

Communications to the Editor

- 1-Epidactimicin, a new aminoglycoside antibiotic converted from fortimicin B by a blocked mutant of istamycin-producing *Streptomyces tenjimariensis*.
M. MORIOKA, K. HOTTA, D. IKEDA, H. NAGANAWA, M. HAMADA & Y. OKAMI 831
- β -Lactamase assay using 2,2'-bicinchoninate at neutral pH and room temperature.
W. L. BAKER 834