

REFERENCES

1. Allawala, N.A., and Reigelman, S. 1953. The Release of Antimicrobial Agents from Solutions of Surface Active Agents. Journal of the American Pharmaceutical Association, Scientific Edition, 42: 267-275.
2. Ayliffe, G.A.J., Barry, D.R., Lowbury, E.J.L., Roper-Hall, M.J., and Walker, W.M. 1966. Post operative infection with Pseudomonas aeruginosa in an eye hospital. Lancet, i: 1113-1117.
3. Bahal, C.K., and Kostenbauder, H.B. 1964. Interaction of Preservatives with Macromolecules V. Binding of Chlorobutanol, Benzyl Alcohol, and Phenylethyl Alcohol by Nonionic Agents. Journal of Pharmaceutical Sciences, 53: 1027-1029.
4. Barker, D.Y., de Kay, H.G., and Christian, J.E. 1956. A study of the Effect of Nonionic Emulsifying Agents on the Release of Medication from Hydrophilic Ointment Bases. Journal of the American Pharmaceutical Association, Scientific Edition, 45: 527-529.
5. Barr, M., and Tice, L.F. 1957. The Preservation of Aqueous Preparations Containing Nonionic Surfactants II. Preservative Studies in Solution and Product Containing Nonionic Surfactants. Journal of the American Pharmaceutical Association, Scientific Edition, 46: 445-451.

6. Bayer, M.E. 1967. Response of Cell Walls of Escherichia coli to a Sudden Reduction of the Environmental Osmotic Pressure. Journal of Bacteriology, 93: 1104-1112.
7. Bean, H.S., and Heman-Ackah, S.M. 1964. Influence of oil:water ratio on the activity of some bactericides against Escherichia coli in liquid paraffin and water dispersions. Journal of Pharmacy and Pharmacology, 16 Suppl: 58T-67T.
8. Bean, H.S., Heman-Ackah, S.M., and Thomas, J. 1965. The Activity of Antibacterials in Two-Phase Systems. Journal of the Society of Cosmetic Chemists, 16: 15-30.
9. Bean, H.S., and Das, A. 1966. The Absorption by Escherichia coli of Phenols and their Bactericidal Activity. Journal of Pharmacy and Pharmacology, 18 Suppl: 107S-113S.
10. Beckett, A.H., and Robinson, A.E. 1958. The Inactivation of Preservatives by Nonionic Surface Active Agents. Soap Perfumery and Cosmetics, 31: 454-460.
11. Berry, H., and Bean, H.S. 1954. The Estimation of Bactericidal Activity from Extinction Time Data. Journal of Pharmacy and Pharmacology, 6: 649-655.

12. Blair, J.E., Lennett, E.H., and Traunt, J.P. 1967. Manual of Clinical Microbiology. American Society for Microbiology, Bethesda.
13. Bolle, M.A., and Mirimanoff, A. 1950. Antagonism between nonionic detergents and antiseptics. Journal of Pharmacy and Pharmacology, 2: 685.
14. Bray, J. 1945. Isolation of Antigenically. Homogeneous Strain of Bacterium coli Neopolitanum from Summer Diarrhea of Infants. Journal of Pathology and Bacteriology 57: 239.
15. Bray, J. and Beavan, T.E.D. 1948. Slide Agglutination of Bacterium coli var Neopolitanum in Summer Diarrhea. Journal of Pathology and Bacteriology, 57: 239.
16. Brown, M.R.W., and Richards, R.M.E. 1964. The effect of Polysorbate (Tween) 80 on the growth rate of Pseudomonas aeruginosa. Journal of Pharmacy and Pharmacology, 16 Suppl: 41T-45T.
17. Brown, M.R.W., and Richards, R.M.E. 1964. Effect of Polysorbate (Tween) 80 on the resistance of Pseudomonas aeruginosa to chemical inactivation. Journal of Pharmacy and Pharmacology, 16 Suppl: 51T-55T.
18. Bruch, C.W. 1971. Microbiological quality of topical products. Drug and Cosmetic Industry, 109: 26.

19. Carson, K.J., and Eagon, R.G. 1966. Further evidence for the role of non-peptidoglycan components in cell wall rigidity. Canada Journal of Microbiology, 12: 105-108.
20. Chase, G.D., Deno, R.A., Gennaro, A.R., Gibson, M.R., Harvey, S.C., King, R.E., Martin, A.N., Swinyard, E. A., Van Meter, C.T., and Witlin, B. 1970. Remington's Pharmaceutical Sciences. Fourteenth Edition. Mack Publishing Company Easton, Pennsylvania.
21. Cook, A.M. 1954. Comparative Studies of Methods of Evaluating Antibacterial Substances. Part I. Evaluation of Bacteriostatic Action. Journal of Pharmacy and Pharmacology, 6: 629-637.
22. Cook, A.M., and Wills, B.A. 1954. Comparative Studies of Methods of Evaluating Antibacterial Substances. Part II Evaluation of bactericidal action. A comparison of an extinction method with a counting method. Journal of Pharmacy and Pharmacology, 6: 638-648.
23. Cruickshank, R. 1965. Medical Microbiology. Eleventh Edition. E & S. Livingstone Limited Edinburgh and London.
24. Davis, B.D., Dulbecco, R., Eisen, H.N., Ginsberg, H.S., and Wood, W.B.Jr. 1968. Microbiology Hoeber Medical Division. Harper & Row, Publishers, New York.

25. Dawson, I.M. 1949. The Nature of the Bacterial Surface Oxford Blackwell.
26. Deluca, P.P., and Kostenbauder, H.B. 1960. Interaction of Preservatives with Macromolecules IV. Binding of Quaternary Ammonium Compounds by Nonionic Agents. Journal of Pharmaceutical Sciences, 49: 430-437.
27. Dulancy, A.D., and Michelson, I.D. 1935. Study of Escherichia coli. Mutable form and Outbreak of Diarrhea in the Newborn. American Journal of Public Health, 25: 1241.
28. Eagon, R.G., and Carson, K.J. 1965. Lysis of cell walls and intact cells of Pseudomonas aeruginosa by Ethylenediamine tetraacetic acid and by lysozyme. Canada Journal of Microbiology, 11: 193-201.
29. Eagon, R.G., Simmons, G.P., and Carson, K.J. 1965. Evidence for the presence of ash and divalent metals in the cell wall of Pseudomonas aeruginosa. Canada Journal of Microbiology, 11: 1041-1042.
30. Few, A.V., and Schulman, J.H. 1953. The Absorption of Polymyxin E by Bacteria and Bacterial Cell walls and its Bactericidal Action. Journal of General Microbiology, 9: 454-466.

31. Giles, C.H., Mac Ewan, T.H., Nakhwa, S.N., and Smith, D. 1960. Studies in Adsorption. Part. XI. A system of classification of Solution Adsorption Isotherms, and its use in Diagnosis of Adsorption mechanisms and in Measurement of Specific Surface Areas of Solids. Journal of Chem. Society, 3973-3993.
32. Gooding, C.M. 1945. Process of inhibiting growth of molds. U.S. patent 2, 379,294.
33. Gray, G.W., and Wilkinson, S.G. 1965. The action of ethylenediamine tetraacetic acid on Pseudomonas aeruginosa. Journal of Applied Bacteriology, 28: 153-164.
34. Gregg, R.M., and Zopf, L.C. 1951. Solubility and Bacterial Studies of Hexachlorophene. Journal of the American Pharmaceutical Association, Scientific Edition, 40: 390-393.
35. Guttman, D.E., and Higuchi, T. 1955. Study of Possible Complex Formation Between Macromolecules and Certain Pharmaceuticals IX. Formation of Iodine-Iodide Complexes with Polyethylene glycol. Journal of the American Pharmaceutical Association, Scientific Edition, 44: 668-678.
36. Hibbott, H.W., and Monks, J. 1961. Preservation of emulsions p-hydroxybenzoic ester partition coefficient. Journal of the Society of Cosmetic Chemists, 12: 2-10.

37. Kauffmann, F. and Dupont, A. 1952. Escherichia coli strains from Epidemic Infantile Gastroenteritis, Acta Pathologica et Microbiological Scandinavica, 27: 552.
38. Lawrence, C.A., and Erlandson, A.L.Jr. 1953. A new Inactivating Medium for Hexachlorophene (G-11). Journal of the American Pharmaceutical Association, 42: 352-357.
39. Lilley, B.D., and Brewer, J.H. 1953. The selective antibacterial action of Phenylethyl Alcohol. Journal of the American Pharmaceutical Association, Scientific Edition, 42: 6-8.
40. Markley, K., and Smallman, E. 1968. Protection by vaccination against Pseudomonas infection after thermal injury. Journal of Bacteriology, 96: 867.
41. Martin, A.N., Swarbruck, J., and Cammarata, A. 1969. Physical Pharmacy second edition. Lea and Febiger. Philadelphia.
42. Melnick, D., Luckmann, F.H., and Gooding, C.M. 1954. Sorbic acid as a fungistatic agent for foods. VI. Metabolic Degradation of sorbic acid in cheese by molds and the mechanism of mold inhibition. Food Research, 19: 44-58.

43. Mulley, B.A., and Metcalf, A.D. 1956. Nonionic surface active agents Part I. The solubility of chloroxylenol in aqueous solutions of polyethylene Glycol 1000 monocetyl ether. Journal of Pharmacy and Pharmacology, 8: 774.
44. Murray, R.G.E. 1957. Direct evidence for a cytoplasmic membrane in sectioned bacteria. Canada Journal of Microbiology, 3: 531-532.
45. Newton, B.A. 1954. Site of Action of Polymyxin on Pseudomonas aeruginosa: Antagonism by cations. Journal of General Microbiology, 10: 491-499.
46. Noyes, H.E., Duangmani, C., Lexomboon, U., and Benjadol, P. 1964. Occurrence of Enteropathogenic Escherichia coli in Thailand, SEATO Medical Research Laboratory, Bangkok. Annual Progress Report, 370-374.
47. Patel, N.K., and Kostenbauder, H.B. 1958. Interaction of Preservatives with Macromolecules. I. Binding of Parahydroxybenzoic Acid Esters by Polyethylene 20 Sorbitan Monooleate (Tween 80). Journal of Pharmaceutical Sciences, 47: 289-293.
48. Rappaport, F., and Henig, E. 1952. Media for the Isolation and Differentiation of Pathogenic Escherichia coli (Serotypes 0111 and 055). Journal of Clinical Pathology, 5: 361.

49. Richards, O.W. 1949. Some Fungous Contaminants of Optical Instruments. Journal of Bacteriology, 58: 453-455.
50. Rosen, W.E., and Berke, P.A. 1973. Modern Concepts of Cosmetic Preservation. Journal of the Society of Cosmetic Chemists, 24: 663-675.
51. Salton, M.R.J. and Horne, R.W. 1951. Studies of the Bacterial Cell Wall II. Methods of Preparation and some properties of Cell Walls. Biochemica et Biophysica Acta, 7: 177-197.
52. Salton, M.R.J. 1951. The Adsorption of Cetyltrimethylammonium Bromide by Bacteria, its Action in Releasing Cellular Constituents and Its Bactericidal Effects. Journal of General Microbiology, 5: 391-404.
53. Sears, H.I., Brownlee, I. and Uchiyama, J.K. 1949. Persistence of individual strains of Escherichia coli in the intestinal tract of man. Journal of Bacteriology, 59: 293.
54. Silver, S., and Wendt, L. 1967. Mechanism of Action of Phenylethyl Alcohol: Breakdown of the Cellular Permeability Barrier. Journal of Bacteriology, 93: 560-566.

55. Smith, D.P., and Rollin, N.J. 1954. Sorbic acid as a fungistatic agent for foods. VII. Effectiveness of sorbic acid in protecting cheese. Food Research, 19: 59-65.
56. Stecher, P.G. 1968. The Merck Index. Eight Edition. Merck & Co., Inc. Rahway, N.I., U.S.A.
57. Taylor, J., Powell, B.W., and Wright, J. 1949. Infantile Diarrhea and Vomiting. Clinical and Bacteriological Investigation. British Medical Journal, 2: 117.
58. Weidel, W., Frank, H., and Martin, H.H. 1960. The rigid layer of the cell wall of Escherichia coli strain B. Journal of General Microbiology, 22: 158-166.
59. Weinbaum, G., Rich, R., and Fischman, D.A. 1967. Enzyme-induced Formation of Spheres from cells and Envelopes of Escherichia coli. Journal of Bacteriology, 93: 1693-1698.

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