PROPOSAL FOR RECOGNITION OF NEOTYPES OF
BACTERIAL SPECIES AND SUBSPECIES

Martinec and Kocur in a monograph include descriptions and historical background of 30 nominal species that have been placed in the genus Erwinia. Physiological characters of 155 strains are included. For some species references in the literature only were available. All are adequately discussed. They propose that two species be recognized in the genus, E. amylovora, with E. amylovora subsp. salicis, and E. carotovora. Neotypes are proposed for the three taxa as follows:

- E. amylovora (Burrill) Winslow. BS 1114 (ATCC 15580; NCPPB 683)
E. amylovora subsp. salicis (Day) comb. nov. BS 1027 (ATCC 15712; NCPPB 447)
E. carotovora (Jones) Bergey et al. BS 1008 (ATCC 15713; NCPPB 310)

The characters of proposed neotype strains 1114 (1963, 19-20), 1057 (1963, 39-40) and 1008 (1963, 54-55) are listed in Table 1. Objections or criticisms of the proposals should be sent to the Chairman of the Judicial Commission or to the Editorial Secretary. The proposals will be submitted to the Judicial Commission six months after the publication of these proposals under date of January 15, 1965.

Table 1. Characteristics of proposed neotype strains.

1114 = Proposed neotype strain of <u>Erwinia amylovora</u> (Burrill) Winslow <u>et al.</u>			
1027 = Proposed neotype strain of <u>E. amylovora</u> subsp. <u>salicis</u> (Day) Martinec and Kocur			
1008 = Proposed neotype strain of <u>E. carotovora</u> (Jones) Bergey <u>et al.</u>			
Test	1114	1027	1008
Glucose	+	+	+
Gas from glucose	-	+	+
Lactose	-	-	+
Sucrose	+	+	+
Maltose	-	+	-
Galactose	+	+	+

Table 1. (cont.)

Test	1114	1027	1008
Fructose	+	+	+
Rhamnose	-	-	+
Mannose	+	+	+
Inulin	-	-	-
Xylose	-	+	+
Arabinose	-	-	-
Cellobiose	-	-	+
Adonitol	-	-	-
Sorbitol	+	+	-
Glycerol	-	+	+
Mannitol	+	+	+
Dulcitol	-	-	-
Trehalose	+	+	+
Raffinose	+	+	+
Inositol	-	+	-
Esculin	+	+	-
Salicin	+	+	+
Hydrolysis of starch	-	-	-
Starch (gas in 4 days	-	-	-
Cellulose	-	-	-
Sodium formate	+	+	+
Sodium acetate	-	+	+
Sodium lactate	+	+	+
Sodium succinate	+	+	+
Sodium benzoate	-	-	-
Sodium tartrate	-	-	-
Sodium malonate	-	-	-
Sodium citrate	-	+	+
Acetylmethylcarbinol	+	+	+
Methyl red test	-	+	+
Arginine dihydrolase	-	-	-
Lysine decarboxylase	-	+	-
Ornithine decarboxylase	-	+	-

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Table 1. (cont.)

Test	1114	1027	1008
Glutamic acid	+	-	-
Phenylalanine deaminase	-	-	-
Hydrolysis of gelatine	+	+	+
Hydrolysis of casein	-	+	+
Reduction of methylene blue	-	+	+
Reduction of nitrate	-	+	+
Reduction of nitrite	-	-	+
Ammonia production	-	-	-
Hydrogen sulfide	-	-	-
Indol	-	-	-
Braun's test (KCN)	-	+	+
Catalase	+	+	+
Pectinase	-	-	+
Cytochrome oxidase	-	-	-
Lipase	-	-	-
Urease	-	-	-
Lecithinase	-	-	-
Tyrosinase	-	-	-
Hemolysis	-	-	-
5% NaCl	-	+	-
7.5% NaCl	-	-	-
Growth at 37° C	+	+	+
Penicillin	-	-	-
Streptomycin	+	+	+
Chloramphenicol	+	-	+
Chlortetracyclin	-	-	+
Tetracyclin	+	-	+
Erythromycin	+	-	-
Neomycin	+	+	+
Tyrothricin	-	-	-
Nystatin	-	-	-
Bacitracin	-	-	-

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