**Supplemental Table 1.** Table that demonstrated the API ZYM reading table, which is cited from the API ZYM user guidance.

| No. | ENZYME ASSAYED FOR          | SUBSTRATE                        | pH | RESULT                  |
|-----|----------------------------|----------------------------------|----|-------------------------|
| 1   | Control                    |                                  |    | Colorless or color of the sample if it has an intense coloration |
| 2   | Alkaline phosphatase       | 2-naphthyl phosphate             | 8.5 | Violet                  |
| 3   | Esterase (C 4)             | 2-naphthyl butyrate              | 6.5 | Violet                  |
| 4   | Esterase Lipase (C 8)      | 2-naphthyl caprylate             | 7.5 | Violet                  |
| 5   | Lipase (C 14)              | 2-naphthyl myristate             |    | Violet                  |
| 6   | Leucine arylamidase        | L-leucyl-2-naphthylamide         |    | Orange                  |
| 7   | Valine arylamidase         | L-valyl-2-naphthylamide          |    | Orange                  |
| 8   | Cystine arylamidase        | L-cystyl-2-naphthylamide         |    | Orange                  |
| 9   | Trypsin                    | N-benzoyl-DL-arginine-2-naphthylamide | 8.5 | Orange                  |
| 10  | α-chymotrypsin             | N-glutaryl-phenylalanine-2-naphthylamide | 7.5 | Orange                  |
| 11  | Acid phosphatase           | 2-naphthyl phosphate             | 5.4 | Violet                  |
| 12  | Naphthol-AS-Bi-phosphohydrolase | Naphthol-AS-Bi-phosphate      |    | Blue                    |
| 13  | α-galactosidase            | 6-Br-2-naphthyl-α-D-galactopyranoside |    | Violet                  |
| 14  | β-galactosidase            | 2-naphthyl-β-D-galactopyranoside |    | Violet                  |
| 15  | β-glucuronidase            | Naphthol-AS-β-D-glucuronide     |    | Blue                    |
| 16  | α-glucosidase              | 2-naphthyl-α-D-glucopyranoside  |    | Violet                  |
| 17  | β-glucosidase              | 6-Br-2-naphthyl-α-D-glucopyranoside |    | Violet                  |
| 18  | N-acetyl-β-glucosaminidase | 1-naphthyl-N-acetyl-β-D-glucosaminide |    | Brown                   |
| 19  | α-mannosidase              | 6-Br-2-naphthyl-α-D-mannopyranoside |    | Violet                  |
| 20  | α-fucosidase               | 2-naphthyl-α-L-fucopyranoside   |    | Violet                  |