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| **Raw data for spoilage potential of microorganism using two method**  |
| Methods | Microorganism | The McKinney index | Percentage of incidence (%) |
| Replication 1 | Replication 2 | Replication 3 | Replication 1 | Replication 2 | Replication 3 |
| Merged method | Sterile water | 2.56 | 0.85 | 0.85 | 7.69  | 7.69  | 7.69  |
| LB medium | 0 | 0 | 4.27 | 0.00  | 0.00  | 38.46  |
| *Cronobacter malonaticus* | 63.08 | 44.62 | 41.03 | 84.62  | 69.23  | 38.46  |
| *Cronobacter sakazakii* | 29.06 | 28.21 | 36.75 | 69.23  | 69.23  | 84.62  |
| *Klebsiella pneumoniae* | 27.35 | 14.53 | 17.09 | 53.85  | 38.46  | 46.15  |
| *Acetobacter sp.* | 17.09 | 11.97 | 11.11 | 61.54  | 46.15  | 38.46  |
| *Serratia marcescens*  | 30.77 | 21.37 | 49.57 | 92.31  | 53.85  | 100.00  |
| *Enterobacter hormaechei*  | 33.33 | 17.95 | 17.09 | 69.23  | 53.85  | 46.15  |
| *Staphylococcus saprophyticus* | 23.93 | 18.8 | 29.91 | 61.54  | 61.54  | 69.23  |
| *Lactococcus garvieae* | 22.22 | 28.21 | 33.33 | 46.15  | 69.23  | 69.23  |
| *Lactobacillus plantarum* | 26.5 | 13.68 | 12.82 | 84.62  | 30.77  | 38.46  |
| *Lysinibacillus fusiformis* | 27.35 | 49.57 | 29.06 | 76.92  | 92.31  | 76.92  |
| *Lysinibacillus sp.* | 25.68 | 17.95 | 16.24 | 76.92  | 53.85  | 53.85  |
| *Bacillus amyloliquefaciens* | 14.53 | 8.55 | 4.27 | 69.23  | 30.77  | 23.08  |
| *Bacillus cereus* | 10.26 | 16.24 | 0 | 30.77  | 38.46  | 0.00  |
| *Bacillus sp.-1* | 23.08 | 12.82 | 19.66 | 53.85  | 38.46  | 69.23  |
| *Bacillus sp.-2* | 26.5 | 9.4 | 22.22 | 69.23  | 23.08  | 61.54  |
| *Cladosporium oxysporum* | 20.51 | 33.33 | 29.91 | 76.92  | 100.00  | 84.62  |
| *Alternaria tenuissima* | 52.14 | 52.14 | 50.43 | 100.00  | 100.00  | 100.00  |
| *Fusarium proliferatum* | 53.85 | 47.86 | 47.01 | 84.62  | 76.92  | 69.23  |
| *Nigrospora sp.* | 60.68 | 64.1 | 55.56 | 100.00  | 100.00  | 100.00  |
| *Penicillium citrinum* | 44.44 | 35.9 | 47.01 | 92.31  | 76.92  | 100.00  |
| *Penicillium georgiense* | 94.87 | 86.32 | 89.74 | 100.00  | 100.00  | 100.00  |
| *Aspergillus niger* | 67.52 | 65.81 | 70.94 | 100.00  | 100.00  | 100.00  |
| *Aspergillus oryzae* | 81.2 | 77.78 | 76.07 | 100.00  | 100.00  | 100.00  |
| *Saprochaete gigas or Geotrichum gigas*  | 53 | 44.44 | 63.25 | 76.92 | 76.92 | 92.31 |
| *Aspergillus aculeatus* | 96.58 | 96.58 | 98.29 | 100 | 100 | 100 |
| Separated method | Sterile water | 0 | 0.00 | 0.00 | 0 | 0.00 | 0.00 |
| LB medium | 0.93 | 0.93 | 0.93 | 8.33 | 8.33 | 8.33 |
| *Cronobacter malonaticus* | 10.19 | 13.89 | 9.26 | 58.33 | 58.33 | 50.00 |
| *Cronobacter sakazakii* | 16.67 | 13.89 | 16.67 | 66.67 | 58.33 | 50.00 |
| *Klebsiella pneumoniae* | 12.04 | 11.11 | 12.04 | 58.33 | 50.00 | 58.33 |
| *Acetobacter sp.* | 18.52 | 12.96 | 13.89 | 50.00 | 50.00 | 58.33 |
| *Serratia marcescens*  | 18.52 | 18.52 | 17.59 | 66.67 | 66.67 | 69.23 |
| *Enterobacter hormaechei*  | 25.93 | 22.22 | 21.30 | 83.33 | 83.33 | 75.00 |
| *Staphylococcus saprophyticus* | 5.56 | 7.41 | 8.33 | 33.33 | 33.33 | 41.67 |
| *Lactococcus garvieae* | 20.37 | 22.22 | 17.59 | 83.33 | 83.33 | 75.00 |
| *Lactobacillus plantarum* | 8.33 | 12.04 | 8.33 | 58.33 | 58.33 | 58.33 |
| *Lysinibacillus fusiformis* | 11.11 | 11.11 | 11.11 | 50.00 | 50.00 | 50.00 |
| *Lysinibacillus sp.* | 3.41 | 2.78 | 2.78 | 33.33 | 25.00 | 25.00 |
| *Bacillus amyloliquefaciens* | 6.48 | 7.41 | 7.41 | 25.00 | 33.33 | 33.33 |
| *Bacillus cereus* | 13.89 | 16.67 | 11.11 | 58.33 | 66.67 | 50.00 |
| *Bacillus sp.-1* | 9.26 | 7.41 | 7.59 | 50.00 | 50.00 | 58.33 |
| *Bacillus sp.-2* | 29.63 | 27.78 | 27.78 | 83.33 | 83.33 | 83.33 |
| *Cladosporium oxysporum* | 53.70 | 57.41 | 44.44 | 100.00 | 100.00 | 100.00 |
| *Alternaria tenuissima* | 29.63 | 39.81 | 29.63 | 83.33 | 91.67 | 83.33 |
| *Fusarium proliferatum* | 12.04  | 10.19  | 15.74  | 75.00  | 75.00  | 75.00  |
| *Nigrospora sp.* | 22.22  | 25.93  | 28.70  | 83.33  | 83.33  | 91.67  |
| *Penicillium citrinum* | 20.37  | 18.52  | 17.59  | 50.00  | 50.00  | 41.67  |
| *Penicillium georgiense* | 24.07  | 34.26  | 31.48  | 83.33  | 91.67  | 83.33  |
| *Aspergillus niger* | 39.81  | 33.33  | 24.07  | 91.67  | 83.33  | 83.33  |
| *Aspergillus oryzae* | 22.22  | 34.26  | 33.33  | 66.67  | 75.00  | 66.67  |
| *Saprochaete gigas or Geotrichum gigas*  | 12.04  | 13.89  | 12.04  | 58.33  | 58.33  | 41.67  |
| *Aspergillus aculeatus* | 55.55  | 50.00  | 51.85  | 100.00  | 100.00  | 100.00  |