

# DIN EN ISO 21528-2:2017-09 (E)

## Microbiology of the food chain - Horizontal method for the detection and enumeration of Enterobacteriaceae - Part 2: Colony-count technique (ISO 21528-2:2017)

---

| <b>Contents</b>  | <b>Page</b> |
|--|-------------|
| European foreword.....   | 3           |
| Foreword.....  | 4           |
| Introduction.....  | 5           |
| <b>1 Scope</b> .....   | <b>6</b>    |
| <b>2 Normative references</b> .....  | <b>6</b>    |
| <b>3 Terms and definitions</b> .....   | <b>6</b>    |
| <b>4 Principle</b> .....   | <b>7</b>    |
| 4.1 Preparation of initial suspension and decimal dilutions.....                             | 7           |
| 4.2 Isolation and selection for confirmation.....  | 7           |
| 4.3 Confirmation.....  | 7           |
| 4.4 Calculation.....   | 7           |
| <b>5 Diluent, culture media and reagent</b> .....  | <b>7</b>    |
| <b>6 Equipment and consumables</b> .....   | <b>7</b>    |
| <b>7 Sampling</b> .....  | <b>8</b>    |
| <b>8 Preparation of test sample</b> .....  | <b>8</b>    |
| <b>9 Procedure</b> .....   | <b>8</b>    |
| 9.1 General.....   | 8           |
| 9.2 Test portion, initial suspension and dilutions.....                                      | 9           |
| 9.3 Inoculation and incubation.....  | 9           |
| 9.4 Counting and selection of colonies for confirmation.....                                 | 9           |
| 9.5 Subculturing selected colonies.....  | 9           |
| 9.6 Biochemical confirmation tests.....  | 10          |
| 9.6.1 Oxidase reaction.....  | 10          |
| 9.6.2 Fermentation test.....   | 10          |
| 9.6.3 Interpretation of biochemical tests.....   | 10          |
| <b>10 Expression of results</b> .....  | <b>10</b>   |
| <b>11 Performance characteristics of the method</b> .....                                    | <b>10</b>   |
| 11.1 Interlaboratory study.....  | 10          |
| 11.2 Repeatability limit.....  | 10          |
| 11.3 Reproducibility limit.....  | 11          |
| <b>12 Test report</b> .....  | <b>11</b>   |
| <b>13 Quality assurance</b> .....  | <b>12</b>   |
| <b>Annex A (normative) Culture media and reagents</b> .....                                  | <b>13</b>   |
| <b>Annex B (informative) Method validation studies and performance characteristics</b> ..... | <b>17</b>   |
| <b>Bibliography</b> .....  | <b>20</b>   |