CHAPTER 4

RESULTS

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Sample | | | | | | | | | | | |
| S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | Mean | S.D. |
| Plate Count 10-1 | 13 | 5 | 39 | 16 | 22 | 7 | 7 | 13 | TNTC | TNTC | 15.25 | 11.094 |
| Plate Count 10-2 | 9 | 16 | 9 | 38 | 20 | 44 | 202 | 12 | TNTC | TNTC | 43.75 | 65.283 |
| Plate Count 10-3 | 12 | 15 | 6 | 26 | 64 | 180 | 21 | 8 | TNTC | TNTC | 41.50 | 58.924 |
| Plate Count 10-4 | 58 | 1 | 2 | 3 | 8 | 69 | 14 | 7 | TNTC | TNTC | 20.25 | 27.170 |

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|  | Sample | | | | | | | | | | | | |
| S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | Mean | S.D. |
| Total Coliforms 10-1 | 3 | 3 | 3 | 1 | 2 | 3 | 3 | 3 | 3 | 0 | 2.4 | 1.075 |
| Total Coliforms 10-2 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2.6 | 2.9 |
| Total Coliforms 10-3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 0.966 | 0.316 |
| Total Coliforms 10-3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 |

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|  | Sample | | | | | | | | | | | | |
| S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | Mean | S.D. |
| Fecal Coliforms 10-1 | 3 | 3 | 3 | 1 | 0 | 3 | 3 | 3 | 3 | 0 | 2.20 | 1.317 |
| Fecal Coliforms 10-2 | 3 | 3 | 0 | 3 | 0 | 1 | 3 | 3 | 3 | 3 | 2.20 | 1.317 |
| Fecal Coliforms 10-3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  | | Sample | | | | | | | | | | |
| S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 |
| Rhizoid | ABSENT | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| PRESENT | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Circular | ABSENT | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 |
| PRESENT | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| Filamentous | ABSENT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| PRESENT | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 |
| Punctiform | ABSENT | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| PRESENT | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 |
| Irregular | ABSENT | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| PRESENT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |

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|  | | Sample | | | | | | | | | | |
| S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | Total |
| Staphylococcus | ABSENT | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 4 |
| PRESENT | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 6 |
| Diplococcus | ABSENT | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 4 |
| PRESENT | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 6 |
| Streptococcus | ABSENT | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 |
| PRESENT | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Bacillus | ABSENT | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 4 |
| PRESENT | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
| Actinomyces | ABSENT | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 9 |
| PRESENT | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Streptobacillus | ABSENT | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 9 |
| PRESENT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |

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|  | | Sample | | | | | | | | | | |
| S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | Total |
| Catalase Test | ABSENT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PRESENT | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 |
| Citrate Test | ABSENT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PRESENT | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 |
| Methyl Red Test | ABSENT | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 5 |
| PRESENT | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| BOTH | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 4 |

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|  | Sample | | | | | | | | | | | |
| S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | Total |
| Kovacs Test 10-1 | 3 | 0 | 2 | 0 | . | 0 | 3 | 1 | 0 | . |  |
| Kovacs Test 10-2 | 3 | 0 | 0 | 3 | . | 0 | 2 | 0 | 0 | 0 |  |
| Kovacs Test 10-3 | 1 | 1 | 0 | 3 | 2 | 0 | 3 | 0 | 0 | 0 |  |

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|  | Sample | | | | | | | | | | | |
| S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | Total |
| EMBA for E. Coli 10-1 | 3 | . | 1 | . | . | . | 1 | 0 | . | . |  |
| EMBA for E. Coli 10-2 | 3 | . | . | 2 | . | . | 0 | . | . | . |  |
| EMBA for E. Coli 10-3 | 1 | 1 | . | 0 | 0 | . | 0 | . | . | . |  |