

**Table 1: Colony of microbial counts**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sample** | **TBC** | **TCC** | **TFC** |
|  |  |  |  |
| RAK | 32 | NG | NG |
| RAS | 26 | NG | NG |
| RAF | 12 | NG | NG |
| RAP | 8 | NG | 21 |
| RBS | NG | NG | NG |
| RBF | NG | NG | 6 |
| RBP | 18 | NG | 14 |
| RBK | 24 | NG | 19 |
| RCF | 15 | NG | 7 |
| RCS | NG | NG | 11 |
| RCP | 29 | NG | NG |
| RCK | 16 | NG | 5 |

**Keys:** TBC- TOTAL BACTERIA COUNT

TFC- TOTAL FUNGAL COUNT

TCC- TOTAL COLIFORM COUNT

NG- NO GROWTH

RAK- Restaurant A Knife

RAS- Restaurant A Spoon

RAF- Restaurant A Fork

RAP- Restaurant A Plates

RBS- Restaurant B Spoon

RBF- Restaurant B Fork

RBP- Restaurant B Plate

RBK- Restaurant B knife

RCF- Restaurant C Fork

RCS- Restaurant C Spoon

RCP- Restaurant C Plate

RCK- Restaurant C knife

**Table 2: Cultural and biochemical characteristics of bacterial isolates from samples**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Location** | | **Isolates** | | **Cultural**  **Characteristics** | | **Shape** | | **Gram**  **Staining** | | **Citrate**  **Test** | | **Urease**  **Test** | | **Catalaste**  **Test** | | **Indole**  **Test** | | **Suspected Organism** | |
|  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| RAK | | **A** | | Abundant, Opaque, golden yellow | | Coccus | | **+** | | **+** | | **+** | | **+** | | **-** | | *Staphylococcus spp* | |
| RAS | | **A** | | Greyish –white colony | | Rods in chain | | **+** | | **+** | | **-** | | **+** | | **-** | | *Bacillus spp* | |
| RAF | | **A** | | Thin cream to gray colour | | Rods | | **-** | | **-** | | **+** | | **+** | | **+** | | *Proteus spp* | |
|  | | **B** | | Greyish –white colony | | Rods in chain | | **+** | | **+** | | **-** | | **+** | | **-** | | *Bacillus spp* | |
| RAP | | **A** | | Greyish –white colony | | Rods in chain | | **+** | | **+** | | **-** | | **+** | | **-** | | *Bacillus spp* | |
| RBS | | **NG** | | **NG** | | **NG** | | **NG** | | **NG** | | **NG** | | **NG** | | **NG** | | **NG** | |
| RBF | | **NG** | | **NG** | | **NG** | | **NG** | | **NG** | | **NG** | | **NG** | | **NG** | | **NG** | |
| RBP | | **A** | | Thin cream to gray colour | | Rods | | **-** | | **-** | | **+** | | **+** | | **+** | | *Proteus spp* | |
| RBK | | **A** | | Abundant, Opaque, golden yellow | | Coccus | | **+** | | **+** | | **+** | | **+** | | **-** | | *Staphylococcus spp* | |
| RCF | | **A** | | Thin cream to gray colour | | Rods | | **-** | | **-** | | **+** | | **+** | | **+** | | *Proteus spp* | |
| RCS | | **NG** | | **NG** | | **NG** | | **NG** | | **NG** | | **NG** | | **NG** | | **NG** | | **NG** | |
| RCP | | **A** | | Abundant, Opaque, golden yellow | | Coccus | | **+** | | **+** | | **+** | | **+** | | **-** | | *Staphylococcus spp* | |
|  | | **B** | | Abundant, turns white NA to green | | Rods | | **-** | | **+** | | **-** | | **+** | | **-** | | *Pseudomonas spp* | |
| RCK | | **A** | | Greyish –white colony | | Rods in chain | | **+** | | **+** | | **-** | | **+** | | **-** | | *Bacillus spp* | |

**Table 3: Cultural and microscopic characteristics of fungal isolates from the samples**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **CULTURAL** |  |  |  |  |  |  | **MICROSCOPY** |  |  |
| **Samples** | **Isolate** | **Elevation** | **Margin** | **Colour**  **(PDA)** | **Growth Rate** | **Reverse**  **side** | **Hyphae** | **Conidia head** | **Conidiospores** | **Vescicle shape** | **Conidia shape** | **Suspected organism** |
| RAK | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** |
| RAS | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** |
| RAF | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** |
| RAP | A | Unbonate | Entire | Spongy dark brown | Very Rapid | Pale white | Unbranched | Bi-seriate | Simple,  long and branched | Globose | Spherical | *Rhizopus spp* |
|  | B | Raised | Entire | Grey | Very Rapid | Whitish | Non-Septate | Radiate | Branched | Globose | Spherical | *Mucor spp* |
| RBS | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** |
| RBF | A | Umbonate | Entire | Black | Rapid | Yellow | Non-Septate | Radiate | Branched | Globose | Round | *Aspergillus Spp* |
| RBP | A | Umbonate | Entire | Black | Rapid | Yellow | Non-Septate | Radiate | Branched | Globose | Round | *Aspergillus Spp* |
|  | B` | Unbonate | Entire | Spongy dark brown | Very Rapid | Pale white | Unbranched | Bi-seriate | Simple,  long and branched | Globose | Spherical | *Rhizopus spp* |
| RBK | A | Raised | Entire | Grey | Very Rapid | Whitish | Non-Septate | Radiate | Branched | Globose | Spherical | *Mucor spp* |
| RCF | A | Raised | Entire | Grey | Very Rapid | Whitish | Non-Septate | Radiate | Branched | Globose | Spherical | *Mucor spp* |
| RCS | B | Umbonate | Entire | Black | Rapid | Yellow | Non-Septate | Radiate | Branched | Globose | Round | *Aspergillus Spp* |
| RCP | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** | **NG** |
| RCK | A | Raised | Entire | Grey | Very Rapid | Whitish | Non-Septate | Radiate | Branched | Globose | Spherical | *Mucor spp* |

