**Table S1 Morphological characterization of fecal bacteria isolated from obese patients on**

**brain heart infusion agar.**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Strains** | **Shape** | **Colour** | **Texture** | **Margins** | **Elevations** | **Opacity** | **Surface** |
| OB-1 | Irregular | Yellow | Moist | Undulate | Raised | Opaque | Shiny |
| OB-2 | Regular | Yellow | Dry | Entire | Raised | Opaque | Dusky |
| OB-3 | Regular | Yellow | Moist | Entire | Raised | Opaque | Dusky |
| OB-4 | Irregular | White | Buttery | Undulate | Flat | Transparent | Shiny |
| OB-5 | Regular | Yellow | Moist | Entire | Raised | Opaque | Dusky |
| OB-6 | Irregular | Yellow | Dry | Undulate | Raised | Opaque | Dusky |
| OB-7 | Regular | Yellow | Dry | Entire | Raised | Translucent | Dusky |
| OB-8 | Regular | Yellow | Buttery | Entire | Convex | Translucent | Shiny |
| OB-9 | Irregular | Yellow | Buttery | Undulate | Flat | Translucent | Shiny |
| OB-10 | Regular | Yellow | Moist | Entire | Raised | Opaque | Shiny |
| OB-11 | Irregular | Offwhite | Buttery | Entire | Convex | Opaque | Shiny |
| OB-12 | Regular | Offwhite | Dry | Entire | Convex | Opaque | Shiny |
| OB-13 | Irregular | Yellow | Mucoid | Undulate | Convex | Opaque | Dusky |
| OB-14 | Regular | Yellow | Mucoid | Entire | Flat | Translucent | Shiny |
| OB-15 | Regular | White | Moist | Entire | Flat | Transparent | Shiny |
| OB-16 | Regular | White | Buttery | Entire | Convex | Transparent | Shiny |
| OB-17 | Regular | White | Mucoid | Entire | Convex | Transparent | Shiny |

OB, Obese patients