

## Supporting document for identification of *Acinetobacter* sp CBT01

### Morphological and Biochemical Characterization:

The colony morphology of the isolate was observed to be circular with entire margins and opaque. The isolate is a gram-negative bacteria with short rods (cocobacilli) of 1-2µm in size (figure 1). The morphological and biochemical characteristics of isolate are given in the Table 1 and 2

**Table 1: Morphological and physiological characteristics of isolate**

Tests	Results
<b>Colony morphology</b>	
Configuration	Circular
Margin	Entire
Elevation	Convex
Surface	Smooth
Pigment	Off-white
Opacity	Opaque
Gram's reaction	negative
Cell shape	Rods
Size (µm)	1-2µm
Spore(s)	-
Motility	Non-motile
<b>Physiological characteristics</b>	
<b>Growth at temperatures</b>	
4°C	-
10°C	+
25°C	+

30°C	+
37°C	+
42°C	+
55°C	+
<b>Growth at pH</b>	
pH 4.0	-
pH 5.0	+
pH 6.0	+
pH 7.0	+
pH 8.0	+
pH 9.0	+
pH 10.0	+
pH 11.0	+

**Table 2: Biochemical Characteristics of isolate**

Substrate, Test	Result
Gram Staining	Negative
Citrate	Positive
Catalase	Positive
Gelatin liquefaction	Negative
Nitrate reduction	Negative
Oxidase	Negative
Acid production from	
Glucose	Positive
Sucrose	Positive
Mannose	Positive
Lactose	Negative
Indole	Negative
Methyl red	Positive
Voges-Proskauer	Negative

**Figure 1 Scanning electron microscope of isolate at magnification of 10x.**

