

**Table S1. Physio-chemical characterization of bacterial isolates**

<b>Characteristic</b>	<b><i>Chryseobacterium geocarpopshaerae</i> DD3</b>
Habitat	Coloured waste water of textile dye house
Shape	Round fried egg colony
Elevation	Flat
Surface	Smooth, slurry
Margin	Circular
Pigmentation	Yellowish centre with white circle
Motility	Aerobic Motile
Citrate utilization	Positive
<b>Extracellular enzymes</b>	
Catalase	Positive
Amylase	Negative
Protease	Negative
Lipase	Positive
Esterase	Positive
Urease	Positive
Tolerance of NaCl	3%
Tolerance to pH	Up to pH12.0
<b>Carbon source utilisation</b>	
Cellulose	Negative
Citric acid	Positive
Fructose	Positive
D-Glucose	Positive
Galactose	Negative
Lactose	Negative
Sucrose	Negative
G+C content (mol%)	48%
Gram character	Positive
Shape	Small Rods
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