

Unveiling Polyhydroxyalkanoates Producing Bacteria Isolated from Mangalore

Environment: An Unearthing Study

Neeksha Naik¹, Dhanyashree Rai¹, Shwetha Madival¹, Sravya SR¹ and Divyashree

Mithoor^{1*}

¹Nitte (Deemed to be University), Nitte University Center for Science Education and Research, Mangalore-575018, India

*** Corresponding author**

Dr. Divyashree M

Scientist G-I

NITTE (Deemed to be university)

Nitte University Center for Science Education and Research (NUCSER)

Deralakatte, Mangalore- 575018, India

divyashree.m@nitte.edu.in

Ph: +919482251176

Divyashree M

ORCID ID- 0000-0002-5545-0696

Supplementary table

Table 5: Results of various screening methods for PHA and their biochemical tests analysis for 30 isolates from environmental samples (Carbohydrate fermentation tests, S-Sucrose, M-Maltose, L-Lactose, F- Fructose).

Sample code	Gram staining	Endospore staining	Enzyme activity		Carbohydrate fermentation			
Isolates			Catalase Test	Oxidase Test	Sucrose	Maltose	Lactose	Fructose
PHAD1	+	+	+	+	+	+	+	+
PHAD2	+	+	+	+	+	+	+	+
PHAD3	+	+	+	+	+	+	+	+
PHAD4	+	+	+	+	+	+	+	+
PHAD5	+	+	+	+	+	+	+	+
PHAD6	+	+	+	+	+	+	+	+
PHAD7	+	+	+	+	+	+	+	+
PHAD8	+	+	+	+	+	+	+	+
PHAD9	+	+	+	+	+	+	+	+
PHAD10	+	+	+	+	+	+	+	+
PHAD11	+	+	+	+	+	+	+	+
PHAD12	+	+	+	+	+	+	+	+
PHAD13	+	+	+	+	+	+	+	+
PHAD14	+	+	+	+	+	+	+	+
PHAD15	+	+	+	+	+	+	+	+
PHAD16	+	+	+	+	+	+	+	+
NS1	+	+	+	+	+	+	+	+
NS2	+	+	+	+	+	+	+	+
NS3	-	-	+	+	+	+	+	+
NS4	+	+	+	+	+	+	+	+
NS5	-	-	+	-	+	+	+	+
NS6	+	+	+	-	+	+	+	+
NG1	+	+	+	-	+	+	+	+
NG2	-	-	+	-	+	+	+	+
NG3	+	+	+	-	+	+	+	+
NG4	-	-	+	-	+	+	+	+
NG5	-	-	+	-	+	+	+	+
NG6	-	-	+	-	+	+	+	+
NG7	-	-	+	-	+	+	+	+
NG8	+	+	+	+	+	+	+	+