ABBREVIATION

#metab- Metabolism

#rotor- Number of rotatable bonds

µg- Micro gram

µL- Micro litre

µM- Micro molar

µm- Micro mole

2D- 2 dimensions

3D- 3 dimension

6X- Multiples

Å- Amstrong

aABA- α-Aminobutyric *acid*

AAS- Atomic absorption spectroscopy

Abs- Absorbance

ABTS- 2,2'-azino-bis(3-ethylbenzothiazoline-6-sulphonic acid

ADME- Absorbtion, Distribution, Metabolism and Excretion

AMR- Anti microbial research

AOAC- *Association of Official Analytical Chemists*

ATP- Adenosine tri phosphate

bAIBA- beta Aminoisobutyric *acid*

BLAST- Basic local alignment search tool

bp- base pair

BSA- Bovine serum albumin

BTAD- Bodoland territorial autonomous districts

Ca- Calcium

Cd- Cadmium

CFU- Colony forming unit

CNS- Central nervous system

Co- Cobalt

CTAB- Cetyl trimethyl ammonium bromide

Cu- Copper

$CuSO_4$- Copper sulphate

dG bind- delta G of binding (free energy)

dG Hbond- Hydrogen bond free energy

dGlipo- lipophilic interaction

dGvdw- Vander walls interaction

DMSO-Dimethyl sulfoxide

DNA- Deoxyribonucleic acid

dNTP- Nucleotide tri phosphate

DPPH- 2,2-diphenyl-1-picrylhydrazyl

FC reagent-Folin–Ciocalteu reagent

Fe- Iron

Fe2+- Ferrous ion

$FeCl_3$- Ferric chloride

FRAP- Ferric reducing antioxidant assay

GABA- Gamma-*Aminobutyric Acid*

GAE- Gallic acid equivalent

GC-MS- Gas chromatography and mass spectroscopy

Gscore- Glide score

H_2SO_4- Sulphuric acid

HB- Hydrogen bond

HCl- Hydrochloric acid

HIV- Human immune deficiency virus

HMG-CoA- *β-Hydroxy β-methylglutaryl-CoA*

HNO_3- Nitric acid

IC_{50}- Inhibition concentration

IMTECH- Institute of microbial technology

ITS- Internal transcribed spacer

K- Potassium

LSU- Large subunit

M- Molar

m/z- mass/ charge

MDM2-Mouse double minute 2 homolog

MEA- Malt extract agar

Mg- Magnesium

mg- Milligram

$MgCl_2$- Magnesium chloride

MIC- Minimum inhibitory concentration

Min- Minute

mL- Micro litre

mm- Milli meter

Mn- Manganese

Mo- Molybdenum

MTCC- Microbial type culture collection

MUFA- Mono unsaturated fatty acid

MW- Molecular weight

N- Normal

N_2- Nitrogen

Na- Sodium

NADH- Nicotinamide adenine dinucleotide

NaOH- Sodium hydroxide

NBT- *Nitro blue* tetrazolium

NCBI- *National Center for Biotechnology Information*

ND- Not detected

ng- Nanogram

Ni- Nickel

NI- no inhibition

ºC- Degree centigrade

OD- Optical density

P- Phosphorus

PBP- Penicillin binding protein

PBS- Phosphate buffer saline

PCR- Polymerase chain reaction

PDA detector- Photo diode array

PDA- Potato dextrose agar

PDB- Protein data bank

pH- Acidity

PMS- Phenazine Methosulphate

PUFA- Poly unsaturated fatty acid

Qavg- Average of Q

QE- Quercitin equivalent

QPlog BB- Blood brain barrier

QPLogP o/w- Octanol water partition coefficient

Q-Spore length / width

RCSB-Research Collaboratory for Structural Bioinformatics

RMSD- Root mean square deviation

RNA- Ribonucleic acid

Rpm- Revolution per minute

RT- Retention time

SASA- Solvent accessible surface area

Se- Selenium

SFA- Saturated fatty acid

SOD- Superoxide dismutase

SSU- Small subunit

TPTZ-2,4,6-Tri(2-pyridyl)-s-triazine

tRNA- transfer Ribonucleic acid

UPLC- Ultra High-performance liquid chromatography

UV-Visible- Ultra Violet Visible

VdW- Vander Walls

Viz- namely

WHO- World Health Organization

Zn- Zinc

ΔG- delta G (Free energy)