

Supplementary material

Biochar and *Bacillus* sp. MN54 Assisted Phytoremediation of Diesel and Plant Growth Promotion of Maize in Hydrocarbons Contaminated Soil

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Table S1. Detail of treatments used in this study.

| Treatments | Detail |
|------------|--|
| Control | Uncontaminated soil with plants |
| PHs | Contaminated soil without plants, <i>Bacillus</i> sp. MN54 and biochar |
| PHs+P | Contaminated soil with plants |
| B+PHs | Contaminated soil with biochar but without plants |
| B+PHs+P | Contaminated soil with biochar and plants |
| M+PHs | Contaminated soil with <i>Bacillus</i> sp. MN54 but without plants and biochar |
| M+PHs+P | Contaminated soil with plants and <i>Bacillus</i> sp. MN54 |
| B+M+PHs | Contaminated soil with <i>Bacillus</i> sp. MN54 and biochar but without plants |
| B+M+PHs+P | Contaminated soil with plants, <i>Bacillus</i> sp. MN54 and biochar |

Table S2. Physicochemical properties of the soil used in the study.

| Parameters | Soil | Biochar |
|------------------------------------|--|-------------|
| Texture | Sandy loam (sand 52.8%, silt 25.4% and clay 21.8%) | - |
| pH | 7.75 ± 0.14 | 8.1 ± 1.1 |
| EC (dS m ⁻¹) | 1.78 ± 0.23 | 2.3 ± 0.5 |
| CEC (mmolc L ⁻¹) | 13.8 ± 0.98 | 48.5 ± 3.7 |
| Organic matter (%) | 0.57 ± 0.26 | - |
| Total C (%) | - | 52.1 ± 3.4 |
| Total N (mg kg ⁻¹) | 1.37 ± 0.44 | 1008 ± 0.24 |
| Available P (mg kg ⁻¹) | 5.65 ± 0.92 | 1814 ± 0.21 |
| Available K (mg kg ⁻¹) | 129 ± 7.34 | 7360 ± 0.72 |

EC, electrical conductivity; CEC, cation exchange capacity

Values represent means (n=3) ± standard deviation

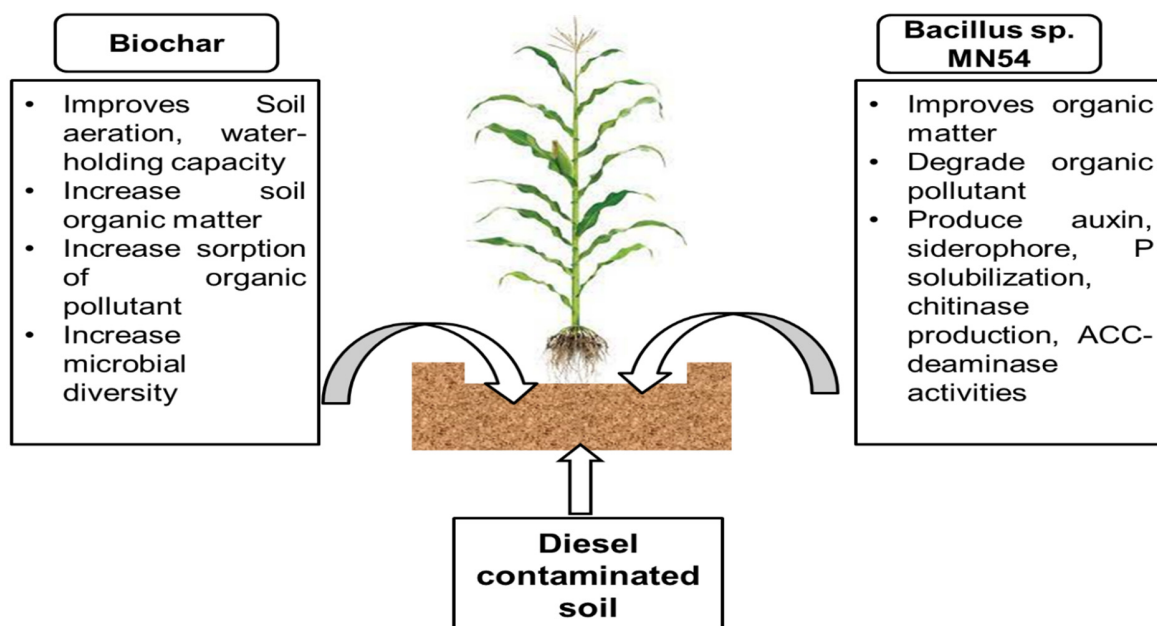


Figure S1. Effect of biochar and bacillus sp. MN54 physical parameters of maize plants grown in hydrocarbons contaminated soil.