



Figure S1. Zn-Al- $^{15}\text{NO}_3$ layered double hydroxides encapsulated in alginate beads (LDH-AN).



Figure S2. Pearl millet (*Pennisetum glaucum* L.) 25 d after transplanting in a growth chamber.



Figure S3. Presence of residual Zn-Al-¹⁵NO₃ layered double hydroxides encapsulated in alginate beads (LDH-AN) 25 d after transplanting pearl millet (*Pennisetum glaucum* L.).

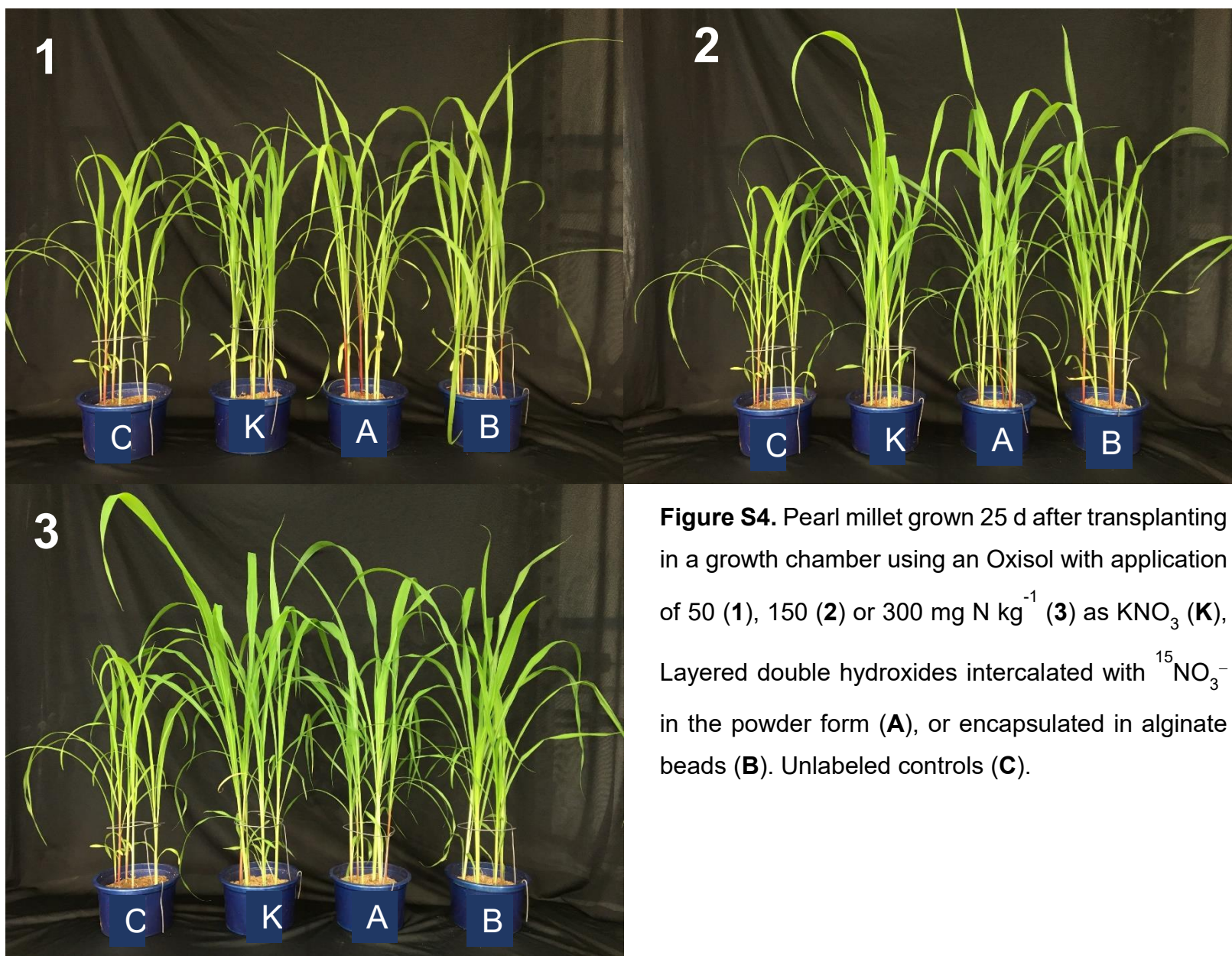


Figure S4. Pearl millet grown 25 d after transplanting in a growth chamber using an Oxisol with application of 50 (1), 150 (2) or 300 mg N kg⁻¹ (3) as KNO₃ (K), Layered double hydroxides intercalated with ¹⁵NO₃⁻ in the powder form (A), or encapsulated in alginate beads (B). Unlabeled controls (C).