Weigh samples at intervals during drying. To see if weighing became constant.

4.

(a)

Fungus increases growth of roots and shoots in both

Produces greater growth with nitrate.

(b)

Similar dry masses for roots and shoots

No significant difference because SDs overlap

(c) The determination of dry mass was an appropriate method because it provides a reliable measure of plant growth. The size of a plant can changes with its water content so measuring dry mass eliminates this variable and only accounts for the actual biomass of the plant.

OR

Dry mass measures organic material

Water content varies.

(d)

Fungus with nitrate-containing fertilizer gave largest shoot: root ratio

And largest dry mass of shoot

6.09:1 compared with ammonium-containing fertilizer 4.18:1

5.

(a) R.

(b)

Proteins broken down into ammonia

By saprobionts

(c)

Increased fertility as more nitrate formed

Aeration reduced denitrification

