

CLAIMS:

1. An aeroponic system, comprising:
 - an aeroponic growth chamber,
 - a cloth or fabric positioned within the aeroponic growth chamber, the cloth or fabric exhibiting (i) a wicking height parameter characterized by a wicking height range from 1.1 cm to 4.5 cm, and (ii) an absorbance parameter characterized by an absorbance range from 0.10 g/cm² to 0.29 g/cm²;
 - wherein the wicking height parameter is a measurement of an ability of the cloth or fabric to absorb moisture and wherein the absorbance parameter is a measurement of moisture the cloth or fabric retains,
 - wherein the cloth or fabric is maintained in a substantially taut configuration within the aeroponic growth chamber.
2. The aeroponic system of claim 1, wherein a weave and yarn of the cloth or fabric facilitates root penetration.
3. The aeroponic system of claim 1, wherein the aeroponic system further comprises a spray nozzle spraying a nutrient solution spray to the bottom of the cloth or fabric, maintained in the substantially taut configuration, and wherein the cloth or fabric provides a substantial barrier to nutrient solution spray.
4. The aeroponic system of claim 1, further comprising (i) cloth or fabric support elements, (ii) a light source, and (iii) a nutrient solution source.
5. The aeroponic system of claim 1, wherein the cloth or fabric is selected from a group consisting of a polyester material and an acrylic material.
6. The aeroponic system of claim 1, wherein the aeroponic growth chamber operates (i) in a temperature range is from 5 °C to 35 °C, (ii) at a pH between 4 and 8, (iii) in a

relative humidity range of from 20% to 100%, and (iv) at a light intensity range of from $0 \mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$ to $250 \mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$.

7. The aeroponic system of claim 1, wherein the substantially taut cloth or fabric inhibits puddling of a nutrient solution on the cloth or fabric.
8. A method of aeroponic farming, comprising:
 - providing an aeroponic system that includes a growth chamber,
 - selecting a cloth or fabric for positioning within the growth chamber, the cloth or fabric exhibiting (i) a wicking height parameter characterized by a wicking height range from 1.1 cm to 4.5 cm, and (ii) an absorbance parameter characterized by an absorbance range from 0.10 g/cm^2 to 0.29 g/cm^2 ,
 - supporting the selected cloth or fabric within the growth chamber; and
 - depositing seeds on the selected cloth or fabric that is supported within the growth chamber.
9. The method of aeroponic farming of claim 8, further comprising spraying a nutrient solution on at least one surface of the cloth or fabric.
10. The method of aeroponic farming of claim 8, further comprising germinating seeds by at least one of (i) spraying a nutrient solution on at least one surface of the cloth or fabric and (ii) submerging the cloth or fabric into the nutrient solution.
11. The method of aeroponic farming of claim 8, further comprising supporting plant growth on the cloth or fabric by spraying the nutrient solution on at least one surface of the cloth or fabric.
12. A system for farming, comprising:
 - a growth chamber,
 - a cloth or fabric positioned within the growth chamber, the cloth or fabric exhibiting (i) a wicking height parameter characterized by a wicking height range

from 1.1 cm to 4.5 cm, and (ii) an absorbance parameter characterized by an absorbance range from 0.10 g/cm^2 to 0.29 g/cm^2 ;

wherein the wicking height parameter is a measurement of an ability of the cloth or fabric to absorb moisture and wherein the absorbance parameter is a measurement of moisture the cloth or fabric retains,

wherein the cloth or fabric is maintained in a substantially taut configuration within the growth chamber.

13. The system of claim 12, wherein a weave and yarn of the cloth or fabric facilitates root penetration.

14. The system of claim 12, wherein a napping of the cloth or fabric provides controlled access to moisture.

15. The system of claim 12, further comprising (i) cloth or fabric support elements, (ii) a light source, and (iii) a nutrient solution source.

16. The aeroponic system of claim 1, wherein the cloth or fabric is a non-biodegradable synthetic material.