

Silver Thiosulfate 6mM  $\text{Ag}(\text{S}_2\text{O}_3)_2$

To convert gynoeocious cucumber plants to also produce male flowers

23.81 g	$\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$ ( Sodium Thiosulphate)
2.04 g	$\text{AgNO}_3$ (Silver Nitrate)
2.0 liters	double distilled water

Dissolve  $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$  in 500 ml double distilled water in volumetric flask. Pour into two liter container. Rinse flask with 500 ml double distilled water. Pour into container.

Dissolve  $\text{AgNO}_3$  in 500 ml double distilled water in volumetric flask. Pour into container containing  $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$  solution. Rinse flask with 500 ml double distilled water. Pour into container. Store in the dark.

NOTE: Always add the  $\text{AgNO}_3$  solution to the  $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$  solution. The opposite will create a black precipitate.

Use 3 mM  $\text{Ag}(\text{S}_2\text{O}_3)_2$  for spraying cucumber plants. Dilute to 3 mM solution by mixing the 6 mM  $\text{Ag}(\text{S}_2\text{O}_3)_2$  with double distilled water 1:1. Store in the dark.

Spray plants in the third to fifth leaf stage. Apply to terminal leaves. Use two light squirts from spray bottle. Make two applications, one week apart.