

## PLUMERIA (Frangipani) SEED SOWING METHOD

- Soak seeds in warm (NOT HOT) water for between 1-4 hours (fresh or bottled water free from contaminants and chlorine is best to avoid risk of killing your seeds). Seeds should be sown at the right temperature. If the temperature is too high or too low, germination rate is likely to be affected. The temperature should be in the 60 to 85 degree range.
- Seeds of each species should be sown in a separate nursery pot or container. It is best to not place multiple varieties in the same pot or seedling box. Too many seeds sown in the same pot could cause new sprouting seeds to lack sufficient light to germinate properly.
- It is best and recommended that you disinfect planting soil if possible.
- Prepare the soil for sowing and filling your planting containers using a good mixture containing some fine particles of soil, good drainage, ventilation and a certain water-retention capacity.
- Here is a good formula for good seeding media: 3 parts peat, 1 part perlite, 1 part vermiculite, 1 part cactus soil mix. You can use your own media by hand applying the above principles.
- Place the seeds on the prepared soil at least one (1) inch apart with the tip of the tail protruding out of the top of the soil.
- Cover the sown seeds with plastic wrap to maintain humidity. Puncture some holes in the wrap with a toothpick to make it more breathable.
- When you have completed, place it in a well lighted place in a warm controlled area. If in a window (indirect sunlight only), or other home area, place it in a north bright place while waiting for the seeds to germinate. Do not place under the south window sunlight as it will affect the germination process.
- After the seeds start to sprout you can remove the plastic wrap, and gradually move them into a sunny location.  
The ambient temperature is different for plumeria and adenium seeds. They require minimum temperature above 60 degrees. Sown at inappropriate temperatures could result in low or no germination.
- After sowing, be patient, different varieties of seed germination may not be the same. Some of the faster varieties may germinate in 2 to 3 days and the slower ones could take more than four weeks time to germinate.
- Water the soil surface the first time until the soil is wet, so the seeds will be fully watered.
- Do not place newly sown seeds in direct sunlight or directly in a south facing window, otherwise the seeds will not germinate within the film covering. Sown seeds should be observed carefully for the first few days, if there is mildew on the soil, check for proper ventilation or remove the plastic wrap. If mildew appears, you can sprinkle cinnamon powder on the surface to help control the fungus and damping off.
- Observe the seeds daily. Pay close attention to the soil surface. If it starts to become dry, mist the surface or lightly water.
- After the seeds have germinated and produced its first 3 to 4 character leaves, they can be transplanted into larger containers.

For more information including picture galleries, natural techniques & remedies for your garden, and our newsletters with additional natural plant pesticides and fungicides visit our website: [www.adeniumplumeriaplants.com](http://www.adeniumplumeriaplants.com).

Feel free to email us at [info@plantniche.com](mailto:info@plantniche.com) with any questions or requests you may have. We appreciate the opportunity to provide you with excellent service. Thank You.

## Factors Affecting Seed Germination

There are 4 major factors that affect germination.

1. **Moisture:** Be sure to spray/mist the soil surface with water every 2-3 days. A dormant seed only contains 10-15% of water and is essentially dehydrated. The seed has to absorb water in order to germinate correctly. **Do not overwater.** Most seeds do not like wet feet.
2. **Soil temperature:** The best temperature needed for Adenium and Plumeria seeds is 80 to 95 degree Fahrenheit. If your soil is too cold or too hot, your seeds may not sprout.
3. **Air:** Proper air flow and oxygen is required. The seeds obtain oxygen that is dissolved in water and from the air contained in the soil. If soil conditions are too wet, an anaerobic condition persists, and seeds may not be able to germinate. Good air circulation is necessary to prevent fungus and damping off of the seeds.
4. **Light:** Adenium and Plumeria seeds prefer 40-60% light for germination. So they shouldn't be covered with too much soil. Only use enough soil to barely cover the seeds, preventing them from blowing away. **The seeds should never be buried deeply.**

### A FEW IMPORTANT TIPS TO HELP YOUR NEW SEEDS GERMINATE:

- NEVER allow the soil to completely dry out,
- DO NOT allow the soil to get soggy and very wet,
- DO NOT place your newly planted seeds in the sun,
- IF PLANTING INDOORS do not place in direct sun but in a well-lighted location,
- DO NOT plant your seeds too deep,
- MAKE SURE seeds are lightly covered with a small amount of light medium,
- DO NOT allow the soil to get too compacted,
- DO keep your seeds in your refrigerator until ready to plant.
- DO soak your seeds for 1-4 hours before planting.

A good 'seed soak' would be 1 teaspoon of Hydrogen Peroxide in 16 ounces of pure water.

Sprinkling a light covering of cinnamon powder over the soil, after planting your seeds, will help prevent 'damping off' and help kill any pathogens in your soil

Sterilize your soil to kill pathogens, germs, weeds and weed seeds.

Obviously, *we cannot guaranty germination* but following these helpful tips should greatly improve your chances for success.

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