Klever Kits 60155

Klever Kits Crystal Growth Kit Instruction Manual

Model: 60155 | Brand: Klever Kits

Introduction

Welcome to the Klever Kits Crystal Growth Kit. This kit provides an engaging scientific experience for children aged 4 and up, allowing them to grow their own colorful crystals. Follow these instructions carefully to ensure a successful and enjoyable crystal growing process.

Safety Information

WARNING: Adult supervision is required. Not suitable for children under 3 years due to small parts. Do not ingest any components.

- Adult supervision is required for children under 8 years old.
- Do not ingest any components of the kit, especially the crystal powder.
- Avoid contact of crystal powder with eyes and skin. In case of contact, rinse thoroughly with water and seek medical attention if irritation persists.
- Wash hands thoroughly before and after handling the kit components.
- Keep all components out of reach of small children and pets.
- Use in a well-ventilated area.

Package Contents

Please verify that all items listed below are present in your kit.



Image description: An overhead view of all components included in the Klever Kits Crystal Growing Lab. This includes the instruction manual, seven packs of crystal powder, seven crystal seeds, one LED display base, one USB-C cable, three silicone cups, and two stir sticks.

- 7 Packs of Crystal Powder (various colors)
- 7 Crystal Seeds
- 1 LED Display Base
- 1 USB-C Cable
- 3 Silicone Cups
- 2 Stir Sticks
- 1 Instruction Manual

Setup

1. **Prepare Your Workspace:** Choose a clean, stable surface away from direct sunlight or drafts. Protect the surface

with newspaper or a mat to catch any spills.

2. **Gather Materials:** Ensure you have all kit components, plus a heat-safe container (like a measuring cup or beaker) for boiling water, and hot water (preferably distilled or bottled).

Operating Instructions: Crystal Growth

Follow these steps carefully to grow your crystals. Patience is key for optimal results!



Image description: A three-step visual guide for growing crystals. Step 1 shows a hand stirring a red solution in a cup. Step 2 shows a hand adding crystal powder to a cup. Step 3 shows the grown crystals on the display base and a single large orange crystal.

1. **Prepare the Solution:**
    - Boil approximately 200ml of distilled or bottled water. Tap water may contain impurities that affect crystal growth.
    - Carefully pour the hot water into one of the silicone cups.
    - Add one pack of crystal powder to the hot water. Stir continuously with a stir stick until the powder is

completely dissolved. This creates a supersaturated solution.
    - Allow the solution to cool completely to room temperature. This is crucial for proper crystal formation.
2. **Add the Seed Rock:**
    - Once the solution has cooled, gently place one crystal seed rock into the center of the cup. Ensure it is fully submerged.
    - If desired, gently wipe the rim of the silicone cup with a clean cloth to prevent crystals from forming on the cup's edge (crystal creep).
3. **Grow the Crystals:**
    - Place the cup in a quiet, undisturbed location where it will not be moved or shaken. Avoid areas with temperature fluctuations.
    - Observe the crystal growth over the next 7 to 14 days. Do not disturb the cup during this period. The longer the crystals grow undisturbed, the larger and more defined they may become.
    - After 7-14 days, carefully pour out the remaining liquid.
4. **Remove and Rinse:**
    - Gently remove the grown crystal from the silicone cup.
    - Rinse the crystal briefly under cool, running water to remove any excess solution. Pat dry gently with a paper towel.
5. **Repeat for More Crystals:** Repeat steps 1-4 for each additional crystal color you wish to grow.

Displaying Your Crystals

Once your crystals are grown and dry, you can proudly display them on the included LED light-up base.



Image description: A young boy looking excitedly at a display base with six glowing, colorful crystals. The base has individual compartments for each crystal, illuminated from below.



Image description: Six colorful, glowing crystals displayed on a base next to a sleeping child's bed, illuminating the surrounding area. The crystals are various colors including yellow, orange, purple, pink, blue, green, and clear.

1. **Connect Power:** Connect the USB-C cable to the LED display base and plug the other end into a compatible USB power source (e.g., computer, wall adapter, power bank).
2. **Place Crystals:** Carefully place your grown crystals into the designated slots on the LED display base.
3. **Enjoy the Glow:** The base will illuminate your crystals, enhancing their beauty, especially in a darkened room.

Maintenance

- **Cleaning Crystals:** If crystals accumulate dust, gently brush them with a soft, dry brush. Avoid using water or cleaning solutions, as this may dissolve or damage the crystals.
- **Cleaning Base:** Wipe the LED display base with a soft, dry cloth. Do not immerse the base in water.
- **Storage:** Store unused crystal powder packs in a cool, dry place. Keep grown crystals away from high humidity or extreme temperatures to preserve their structure.

Troubleshooting

Problem	Possible Cause	Solution
Crystals are not growing or are very small.	Solution was not fully saturated; solution cooled too quickly; solution was disturbed; tap water used.	Ensure crystal powder is completely dissolved in hot water. Allow solution to cool slowly and undisturbed. Use distilled or bottled water. Ensure the seed rock is fully submerged.
Crystals are growing on the sides of the cup.	Solution crept up the sides of the cup.	Gently wipe the rim of the silicone cup after adding the seed rock to prevent crystal creep.
Crystals are fragile or break easily.	Crystals were removed too early; improper handling.	Allow crystals to grow for the full recommended period (7-14 days). Handle grown crystals with extreme care.
LED base is not lighting up.	USB cable not connected properly; power source issue.	Ensure the USB-C cable is securely connected to both the base and a working USB power source. Try a different USB port or power adapter.

Specifications

- **Model Number:** 60155
- **Brand:** Klever Kits
- **Recommended Age:** 4 years and up (with adult supervision)
- **Material:** Polypropylene (for cups and base)
- **Item Dimensions (L x W x H):** 69.9 x 56.4 x 24.9 cm (packaging/kit size)
- **Item Weight:** 1.32 Kilograms
- **Educational Objective:** Concentration, Observation Skills, Problem Solving Skills
- **Power Source for LED Base:** USB-C (cable included, adapter not included)

Warranty and Support

For any questions, concerns, or support regarding your Klever Kits Crystal Growth Kit, please refer to the contact information provided on the product packaging or visit the official Klever Kits website. Keep your purchase receipt as proof of purchase.

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