



**INSTRUCTIONS FOR CLEANING REPLICATOR
PINS WITH VP 110 - PIN CLEANING SOLUTION Prepare
1:5 dilution of VP 110 Pin Cleaning Solution:**

1. 30 ml VP 110 Pin Cleaning Solution and 120 ml distilled H₂O.
 2. Mix well. Store in covered dish (VP 420) at room temperature for multiple uses. **Clean Pins:**
 1. Dip Replicator pins into 1:5 VP 110 Pin Cleaning Solution to approximately 2/3 pin length or to the depth the pins will be submerged in the sample plates.
Move pin tips up and down through the meniscus 3X, to ensure the even cleaning of pins
 2. If cleaning slot pins, visually inspect slots for air bubbles. ***Repeat Step 1 if air bubbles are seen in slots***
 3. Blot onto VP 522 Lint-Free Blotting Paper.
 4. Repeat Steps 1-3, 1X.
 5. Set up two dH₂O reservoirs and a 99% isopropanol reservoir (e.g., in pipette tip lid boxes).
 6. Dip Replicator pins into first dH₂O reservoir.
Move pin tips up and down through the meniscus, 3X
 7. Blot onto VP 522 Lint-Free Blotting Paper.
 8. Repeat Steps 6-7, through remaining dH₂O reservoir.
 9. Dip Replicator pins into the isopropanol reservoir.
Move pin tips up and down through the meniscus, 3X
 10. Blot onto VP 522 Lint-Free Blotting Paper.
 11. Air dry or use hot air dryer to dry pins. 12.
- Replicator pins are now, ready for use.

CAUTION --- The VP 110 pin cleaning solution contains a dilute acid solution which can strip the protective anodized surface off the anodized aluminum replicator bases or float

**plates. If you accidentally get the VP 110 pin cleaning solution on an anodized surface,
quickly rinse it off with water.**

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