

Dry Storage Cabinet Protocol

Congratulations on your new dry storage unit! You are one step closer to unplugging your freezer and making the world greener.

Biomatrica's dry storage cabinets are designed to protect samples from exposure to high humidity during long-term storage at room temperature. The cabinets are an ideal repository for samples stored in Biomatrica's room temperature stability products, including RNAstable[®], Clonestable[™] (for bacterial DNA) or DNAstable[®] and can also be used to store any samples requiring a stable humidity environment.

Kit Components

- Dry Storage Cabinet and Dri-Box Desiccant(s)

Cabinet Size	Catalog #	Desiccant(s) per Cabinet
Small Cabinet	95905-058	1
Medium Cabinet	95904-168	2
Large Cabinet	95904-178	4

- Hygrometer (humidity gauge)
- Protocol

Cabinet Usage

Before using the cabinet for sample storage, open the bag(s) containing the Dri-Box desiccant(s). Verify that the color of the desiccant is blue, indicating that it is fresh. Place it on the top (for easy removal) of the clear platform located on the bottom of the cabinet. The desiccant will maintain low humidity (<40%) by absorbing moisture. Monitor the humidity within the cabinet using the provided hygrometer and regenerate the desiccant when the humidity is over 35%.

More information on reverse side.

Desiccant Regeneration

Oven (preferred method):

Heat desiccant packet(s) inside an oven set at 115 °C (240 °F) for three hours. The color of the desiccant packet should change from pink to blue.

Microwave:

Place Dri-Box vertically within a microwave so that neither of the two side vents are obstructed. Heat desiccant(s) for 20 seconds until color change is observed in all desiccant beads from pink to blue. The number of microwave cycles may vary with each microwave. Allow the desiccant to sit for 3-5 minutes before repeating the procedure to allow steam to escape the container and for the plastic to cool.

Warning: The plastic container will melt if cooling time is insufficient. Use caution when removing the Dri-Box as it could be extremely hot.



(Ready for use)



(Follow Regeneration Protocol)

Frequently Asked Questions

Situation	Comment	Suggestion
Dri-Box desiccant is not blue when I remove it from the packaging.		Regenerate desiccant using Oven or Microwave procedure shown above.
I have been using the desiccant in the dry storage cabinet and it has changed from its blue color. Should I regenerate the desiccant?	You can regenerate the desiccant when its color has changed but it might be premature as the desiccant will change to pink at 20-30% of its capacity. The humidity gauge is the most accurate measure of whether regeneration is needed.	Regenerate the desiccant based on humidity within cabinet. If humidity gauge exceeds 35%, regenerate your desiccant according to the directions provided.
Can I use more than the recommended number of desiccants in my dry storage box?	Yes. Increasing the amount of desiccant can reduce the frequency of regeneration. Cat. No. 16901-080	
Can I use another brand of desiccant in the dry storage box?	Yes. Make sure it is a new silica gel desiccant and in packaging that allows for regeneration.	

For more information, contact Biomātrica at 866-379-6879 or 858-550-0308.