



## **CARE AND USE OF TUMBLE STIR DISCS AND DROP DISC DISPENSERS**

1. Place Tumble Stir Discs in a small beaker and cover with aluminum foil. Sterilize Tumble Stir Discs by autoclaving or heating in a hot air oven at 150°C for 1 hour.
2. Disinfect the Drop Disc Dispenser and plastic scraper by soaking in a 10% bleach solution followed by sterile water rinses and an additional rinse in alcohol.
3. Carefully pour about twice the needed number of Tumble Stir Discs into the appropriate Tumble Stir Disc Drop Dispenser and gently swirl the Tumble Stir Discs while holding the Dispenser level to fill the empty stirrer slots.
4. When all of the slots are full, tilt the Dispenser with the Dispenser ramp over a sterile beaker and swirl the Dispenser so most of the excess Tumble Stir Discs slide down the ramp into the beaker.
5. Place the Dispenser on a sterile microplate and dispense the Tumble Stir Discs by pulling on the plastic knob to align the plenum holes with the holes in the Dispenser platform. Repeat this process 3 times and visually verify that each Tumble Stir Disc has fallen through the holes. **Do not align the holes by pulling on the top edge of the plenum right angle as this will "bow" the plenum and discs will jam between the plenum and dispenser platform.**
6. Magnetize the Tumble Stir Discs in the microplate by placing it on the Magnetic Tumble Stirrer™. Recommended stir speed is between 5 and 60 flips per minute (setting of 16 to 60 on the controller dial). **Do not use the speed controller to stop the stirrer, use the "on/off" switch.**
7. To recover the Tumble Stir Discs from microplates, simply place a microplate lid on the magnetic block, pass the magnet block slowly over the top of the microplate to pull the Tumble Stir Discs out of the wells. Position the magnetic block over a beaker and remove the microplate lid from the magnetic block so the Tumble Stir Discs fall into the beaker.
8. Cover the beaker with aluminum foil and demagnetize the Tumble Stir Discs by passing them over the VP 781 Demagnetizer or another commercial demagnetizer.
9. Clean the Tumble Stir Discs using detergents appropriate to your application. Sterilize and dry the Tumble Stir Discs by autoclaving or baking in a hot air oven.