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## REMOTE SWABBING AND MICROBIOLOGICAL SAMPLING TOOLS (PATENTED) & CLEANING VALIDATION COUPONS

### REMOTE SWABBING & MICROBIOLOGICAL SAMPLING TOOLS

Made of anodized aluminum (for light weight), standard tool extendible up to 10 feet with optional extensions to 25 ft, to take swab or microbiological samples from distant locations such as surfaces of large mixers, blenders, dryers, reactors, etc. without actually someone getting inside of the equipment. At the tip of this tool there is an anodized aluminum adjustable angle adapter which can be bent up to 90° in order to gain access to the location to be swabbed. Five different types of clips may be attached to the tip of the adjustable angle adapter in order to hold a swab (with or without a handle), a wipe, a microbiological sampling plate (agar plate) or a swab from a microbiological sampling tube (Swube). This tool can be completely dismantled and reassembled in a few minutes, and is sterilizable. The plastic collars inside the tool segments can be sanitized with alcohol.

An optional mirror attachment with sizes of plastic mirrors (3" x 3" and 6" x 6") and a flash light attachment are also available.

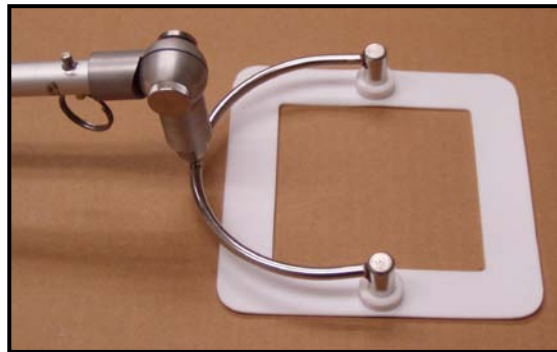


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## TEFLON TEMPLATE TOOL

Is just like the tool described above except that a Teflon template holder with a Teflon template having an opening of desired dimensions is attached to it, and is used in conjunction with the swabbing tool for swabbing a pre-determined surface area. Teflon templates are available with custom-made sizes, shapes, and surface area.



## ACCESSORIES

**Suction Cups** – are required to be used in conjunction with the swabbing tool for microbiological sampling with agar plates. 2" in diameter and individually packaged, two different types are available:

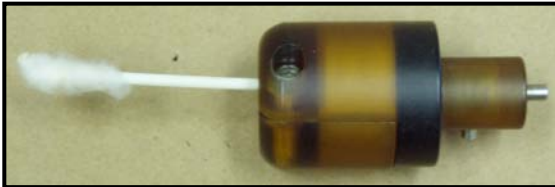
- a. Made of PVC, cannot be steam sterilized, may be sanitized with alcohol, and disposable.
- b. Made of silicone, can be steam sterilized and reusable.



(Rodak plates are not sold by GlobePharma)

**Clips** – Five different types of clips are available:

- a. Made of 316 stainless steel and electropolished for microbiological sampling using agar plates. Steam, dry heat, ETO, and gamma radiation sterilizable.
- b. Made of 316 stainless steel and electropolished for swab sampling using swabs with or without handles, filter paper, or wipes. Especially suitable for Texwipe Alpha Swabs TX761 and TX714A (available from VWR Scientific). Steam, dry heat, ETO and gamma radiation sterilizable.
- c. Made of FDA approved white plastic, for same application as described in (b) above. May be sanitized with alcohol, but not sterilizable. Designed to avoid scratching the surface being swabbed.
- d. Made of an FDA approved amber colored special plastic, for microbiological sampling using swabs from microbiological tubes (Swubes). Steam, dry heat, ETO, and gamma radiation sterilizable.
- e. Made of 316 stainless steel, for microbiological sampling using Culture Swab from DIFCO Laboratories.



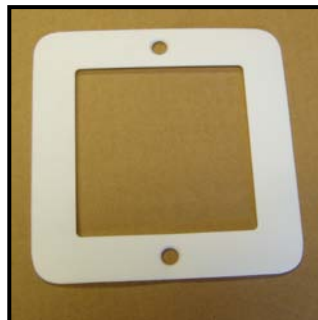
**Adjustable Angle Adapter** – Made of anodized aluminum, this part accepts all the clips described above. Angle can be adjusted to 90°.



**Teflon Template Holder** – Made of 316 stainless steel. Used with the Teflon template tool to hold the template.

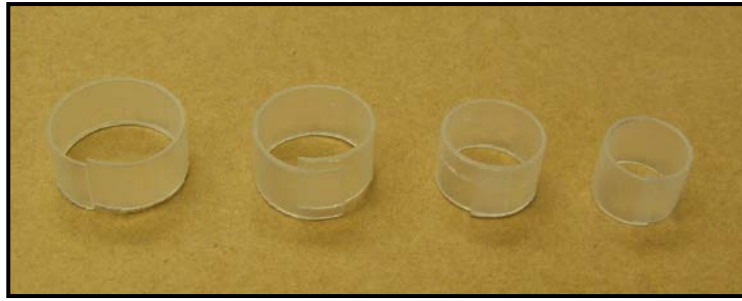


**Teflon Template** – Made of Teflon, 6" x 6" external dimensions, with an opening of desired dimensions.



**Aluminum Clutches & Plastic Collars** – Aluminum clutches to provide grip between the segments of the tool





**Mirrors:** To be able to see underneath a surface while swabbing or inspecting. 3" x 3" and 6" x 6" sizes are available.



**Flash Light:** To be able to illuminate the surface being swabbed. Light weight, LED.



**Mirror and Flash Light Attachments** - Mirror attachment assembly includes the mirror with adapter, plastic collar and 8" long aluminum tube. Flash light attachment assembly includes the flash light and the plastic collar.



**Ball Spring Pin** – To lock the adapters on to the tool



**Hand Grip** – To prevent the tool from slipping from the hand.



**End Cap** – To cap the open end of the tool, plastic, black or white.



## CLEANING VALIDATION COUPONS

Cleaning validation coupons are used in the laboratory to validate a proposed swabbing method before using that method on the actual surface, which is the subject of cleaning validation. For example, if your proposed method for swabbing involves a solvent, say methanol, how do you know if that solvent and the swabbing technique you are going to use will actually recover the residue from the surface? In order to determine the efficiency of your swabbing method in recovering the residue, a cleaning validation coupon, matching the material of construction and the finish of the subject surface, is spiked with known amount of a solution of the residue of known concentration, dried, and swabbed with your proposed swabbing method and the swab analyzed for the residue. If the recovery of the residue is within acceptable limits, then you can proceed to do the swabbing on the subject surface.

GlobePharma offers coupons made of several different materials with different finishes, such as 316 stainless steel, 304 stainless steel, aluminum, brass, bronze, a variety of plastics and rubbers, etc. Standard dimensions of the coupons are 1/8" x 2" x 2" and 1/8" x 4" x 4". However, custom-made coupons are also available.

