# **SOP Template: Glassware Cleaning and Sanitization Process**

This SOP describes the **glassware cleaning and sanitization process**, detailing the procedures for properly washing, rinsing, and sanitizing glassware to ensure hygiene and prevent contamination. It includes steps for pre-cleaning, selecting appropriate cleaning agents, using correct water temperatures, rinsing techniques, sanitization methods, drying protocols, and storage guidelines. The purpose is to maintain the highest standards of cleanliness and safety in environments such as laboratories, food service, and beverage production.

## 1. Purpose

To standardize the cleaning and sanitization process for glassware, ensuring consistent hygiene and the prevention of cross-contamination.

## 2. Scope

This SOP applies to all personnel responsible for cleaning glassware in laboratories, food service, beverage production, and related environments.

## 3. Responsibilities

- All personnel must follow this SOP during glassware cleaning and sanitization.
- Supervisors must ensure adherence to procedures and provide necessary training.

## 4. Materials & Equipment

- · Appropriate glassware
- Detergent (laboratory-grade or food-safe)
- Scrub brushes and/or sponges
- Personal protective equipment (gloves, goggles, lab coat)
- Sink with warm/cold running water
- Sanitizing solution (e.g., 70% ethanol, chlorine-based, or other approved chemical sanitizers)
- Drying racks or clean lint-free towels
- · Waste containers

#### 5. Procedure

#### 1. Preparation

- Wear appropriate PPE.
- o Inspect glassware for cracks or chips. Dispose of damaged items appropriately.

#### Pre-cleaning

- Empty contents and remove any solid residues using water or a soft brush.
- Soak heavily soiled glassware in warm water to loosen residues if needed.

#### 3. Washing

- Apply a suitable amount of detergent to a brush or sponge.
- Wash glassware thoroughly inside and out, paying special attention to hard-to-clean areas.
- Use warm water (40–50°C/104–122°F) for effective cleaning.

#### 4. Rinsing

- Rinse glassware in warm running water to remove all detergent residues.
- Repeat rinse as needed until water runs clear.

#### Sanitization

- Submerge or rinse glassware in an approved sanitizing solution, following manufacturer's instructions for concentration and contact time.
- Alternatively, place glassware in a laboratory autoclave if required and applicable.

#### 6. Final Rinse (if required)

o If using chemical sanitizers, rinse with sterile or distilled water if protocol requires.

#### 7. Drying

- Place glassware on a clean drying rack, inverted to allow drainage.
- o Do not use cloth towels unless they are lint-free and sanitized.

#### 8. Storage

- After glassware is fully dry, transfer to clean, closed storage areas to avoid recontamination.
- Store upside down if possible.

# 6. Cleaning Agents and Sanitizers Table

Туре	Recommended Agents	Notes	
Cleaning	Laboratory-grade detergents, food-safe dish soap	Non-abrasive to avoid scratches on glass	
Sanitizing	70% Ethanol, Sodium hypochlorite (bleach), Commercial sanitizer	Follow manufacturer instructions for dilution/contact time	
Final Rinse	Sterile or distilled water	Used when protocol requires	

## 7. Documentation

• Record each glassware cleaning batch in a log sheet, including date, time, personnel, and notes on any deviations or observations.

### 8. References

- Manufacturer's recommendations for detergents and sanitizers
- ISO 8655 and other relevant industry standards

# 9. Revision History

Version	Date	Description	Author
1.0	2024-06-17	Initial release	[Your Name]