Technical Guidelines for Disinfectants and Detergents Lab Tests
1. The purpose of the procedures
   To ensure the compliance of detergents and disinfectants with the endorsed conditions and specifications.

2. Segment of implementation
   All organizations that import/manufacture/deal with detergents and disinfectants for commercial purposes.

3. Definitions
   3-1 **Detergent product** is any substance or preparation containing soaps and/or surface tension coefficient for the purpose of cleaning and washing, which may present in any form (liquid, powder, paste, bar, a cake, etc..) and can be used domestically or for industrial purposes
   
   3-2 **Disinfectant** is anti-microbial product used on non-living materials to kill micro-organisms for the purpose of disinfection through neutralizing some or all of the disease causing organisms that may lead to infection
   
   3-3 **Antiseptic** is the material that reduces the number of micro-organisms to ensure a certain level of safety against infection
   
   3-4 **Detergents and disinfectants companies** are trading companies licensed inside the UAE, and have activity related to detergents and disinfectants, which need approval to detergents and disinfectants products that would be imported to/ manufactured in the UAE.

4. Inputs
   4-1 Consumer products
   
   4-2 Test Application form signed by the consumer products safety section and directed to an accredited lab to produce the required test.

5. Disinfectant & Detergents Tests
5-1 General Disinfectant & Detergents Tests

5-1.1 Chemical & specification test to detect the content of the product

5-1.2 Microbiology Test to detect any microbial contamination like bacteria, yeast, and mold

5-1.3 Stability test to evaluate the product’s shelf life

5-1.4 Efficacy test

5-2 Lab test for Each Class of Disinfectant & Detergents

5-2.1 Chemical & Specification test to detect the product composition and these tests include:

- **Chemical test for Laundry Detergents**: pH test, surface active substances, active oxygen detection, silicate, phosphate and heavy metal detection test

- **Chemical test for Bleaching Chemicals**: pH test, and active oxygen detection

- **Drain & Heavy Duty Cleaners**: water hardness substance examination, alkali contents detection test, surface active substance determination, and stability test

- **Glass & Surface Cleaners**: pH determination, surface active substance determination, and examination of heavy metals tests

- **Multi Purpose Cleaners & Dish Washing Liquids**: pH Determination, stability test, alkali content

- **Food Contact Chemicals**: examination of heavy metals, pH determination, and stability test

- **Disinfectant & Sanitizing Liquids**: Efficacy test, pH determination, stability test, moisture & volatile content
5-2.2 **Stability test** to evaluate the product’s shelf life and this test is requested for the following products:

- Bleaching Chemicals
- Drain & Heavy Duty Cleaners
- Glass & Surface Cleaners
- Multi Purpose Cleaners
- Food Contact Chemicals
- Disinfectant & Sanitizing Liquids

1-1.2 **Efficacy test** requested for industrial products, commercial and unsold products to common consumer.

6. References

6-1 Local Circular No. (11/2003) for the year 2003
6-2 Detergents and disinfectant circular 28/02/2010
6-3 Detergents and disinfectant technical guidelines (European directive 548/EEC)