

 GOVERNMENT OF DUBAI	Organization Unit: Public Health & Safety Department	الوحدة التنظيمية:	 بلدية دبي DUBAI MUNICIPALITY
	Form sheet title: Technical Guidelines for Disinfectants and Detergents Lab Tests	اسم النموذج :	
	Doc Ref. DM-PH&SD-P5-TG6	رقم النموذج :	

Technical Guidelines for Disinfectants and Detergents Lab Tests

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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

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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

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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)