

	Datasheet for Wash Buffer Concentrate Name of the Product: Wash Buffer 1 Wash Buffer 5	Art.-No.: B-201-#-WB B-205-#-WB Doc.:DB_E_WB_v01.docx version: 01 valid from: 2016-02-08 page 1 of 1
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1. Effective Components

The wash buffer concentrates are based on a TRIS-buffer and contain several ions and surface active substances.

The solutions contain biocides for protection from microbiological spoilage. The biocides are dangerous for water organisms (see safety data sheet). By use in accordance with attended purpose, no danger for laboratory staff and environment is expected.

2. Principle of Function

The buffer system provides a biocompatible environment for the proteins involved in the process. The ions are responsible for the cleaning effect and surface active substances split nonspecific protein bindings.

3. Instructions for Storage, Transport and Filling

The shelf life of the wash buffer concentrate solutions is 36 months from the date of production. They have to be stored firmly closed at 2 – 8°C.

It is possible to transport the solutions at ambient temperature. Temperatures exceeding 30°C should be avoided. The transport should take less than one week.

Any filling or decanting into other bottles has to be done into clean vessels.

Frozen solutions have to be mixed thoroughly after thawing and can be used without any restriction afterwards.

Solutions showing turbidity should not be used, since this might be a sign of contamination.

4. General Instructions for Use

Only qualified staff, who are familiar with the production of immunological tests, is permitted to handle Wash Buffer 1 and 5.

The **working solution** is prepared by dilution of **1:10** (1 part wash buffer concentrate, 9 parts water) in distilled or deionized water. The washing procedure can be done by hand or by washer instruments.

In accordance with the need of the tests three to five wash cycles are useful. The Wash Buffer 1 shows a stronger washing effect than Wash Buffer 5.

Both buffers are tested in ELISAs with HRP as well as Alkaline Phosphatase as marker enzyme.

If used in washer instruments it is recommended to remove the wash buffer by rinsing with deionized water, if necessary with addition of cleaners, to avoid formation of crystals and corrosion in pumps and valves.

5. Literature

A.M.Raem, P.Rauch: Immunoassays, Elsevier München 2007

F. Traunmüller et.al.: Influence of washing buffer composition on the sensitivity of an enzyme-linked immunosorbent assay using mycobacterial glycolipids as capture antigens, J Immunoassay Immunochem 2005;26(3):179-88