



PeliKine-Tool™ set

Additional reagents for application in PeliKine-compact™ ELISA kits

Research Use Only

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I. INTRODUCTION

The PeliKine-Tool™ set has been developed to complement Sanquin's successful line of PeliKine-compact™ ELISA kits. The latter have been designed to combine the ease of a ready-to-use kit with the economy of a do-it-yourself assay. Thus, the user of our PeliKine-compact™ kits only has to make a few simple buffer solutions and ELISA reagents. The PeliKine-Tool™ set contains the chemicals and solutions to be used in the PeliKine-compact™ kits: coating and washing buffers, as well as substrate and stop solutions. Now you are certain of high-quality solutions, to obtain optimal ELISA results and by using these ready-made components, you save time and prevent mistakes as well.

The PeliKine-Tool™ set: to make most out of your Sanquin PeliKine-compact™ ELISA kits!

II. STORAGE AND STABILITY

The PeliKine-Tool™ set should be stored at 2-8°C. The performance of the kit is guaranteed until the expiration date shown on the box label.

III. CONTENTS OF THE SET

The PeliKine-Tool™ set contains material sufficient for one PeliKine-compact™ kit (288 tests), reagents provided are:

Quantity	component		amount
1 bottle	coating buffer capsules	for 3 x 100 ml buffer	3 pcs
1 bottle	PBS tablets	for 3 x 200 ml buffer	3 pcs
2 bottles	Washing buffer	20-fold concentrated	2 x 50 ml
1 bottle	TMB substrate solution	ready-for-use	40 ml
1 bottle	Stop solution (0.18 M H ₂ SO ₄)	ready-for-use	40 ml

IV. PRECAUTIONS FOR USE

- 1) The PeliKine-Tool™ set is intended *for research purposes only*.
- 2) Only use the reagents supplied with the set, do not mix reagents from different kit lots.
- 3) Do not add any preservative to the supplied reagents, they may have direct or indirect effects on the final colour development of the HRP-substrate system.
- 4) The washing buffer contains merthiolate (0.001 % w/v).
- 5) Do not expose the TMB substrate solution to strong light during incubation or storage. The TMB substrate solution must be colourless when used; if the solution turns blue, it must be replaced.
- 6) TMB substrate solution or stop solution should not be in contact with metals or metal ions, to avoid unwanted colour formation.

V. ADDITIONAL MATERIALS REQUIRED

- Distilled or deionized water.
- Beakers, flasks, cylinders necessary for preparation (and storage) of prepared buffers.

VI. PREPARATION OF BUFFERS

Coating buffer

Dissolve **only the contents** of one capsule in 100 ml of distilled water.

(The outer coating of the capsule (gelatine) will stop the coating buffer working properly, so do not dissolve or rinse the coating capsule, but only the contents)

Wait for 5 minutes, mix contents and the working-strength coating buffer is ready for use.

The prepared buffer can be stored in a closed container up to one week at 2-8°C.

Bring buffer to room temperature (18-25°C) and apply buffer as described in your Pelikine compact™ kit insert.

(please note that this coating buffer should not be used for the following PeliKine-compact™ ELISA kits: IL-6r, sCD27, Granzyme A and Granzyme B. Check your appropriate kit insert for the preparation of these coating buffers.)

PBS solution

Dissolve one tablet in 200 ml of distilled water.

Wait for 5 minutes, mix contents and the working-strength phosphate buffered saline (PBS) solution is ready for use.

The prepared buffer can be stored in a closed container up to one week at 2-8°C.

Bring buffer to room temperature (18-25°C) and apply buffer as described in your Pelikine-compact™ kit insert.

(Do not use the PBS tablets for preparation of a coating buffer!)

Wash buffer

Prepare a working-strength solution by adding 50 ml of the wash buffer concentrate (total content of the bottle) to 950 ml distilled water. The working-strength solution wash buffer can be stored up to 2 months at 2-8°C.

Bring buffer to room temperature (18-25°C) and apply buffer as described in your Pelikine-compact™ kit insert.

VII. SUBSTRATE AND STOP SOLUTIONS

TMB substrate solution

The supplied substrate solution is a ready-for-use mixture of 3,3',5,5'-tetramethylbenzidine (TMB) and hydrogen peroxide. Protect substrate solution from prolonged exposure to light.

Bring TMB substrate solution to room temperature (18-25°C) and apply as described in your Pelikine compact™ kit insert. However, due to the excellent quality of the supplied Toolset substrate solution, a shorter incubation time than mentioned in the Pelikine-compact™ kit insert might be necessary.

Stop solution

The supplied stop solution is a ready-for-use sulphuric acid solution (0.18 M) in water.

Bring stop solution to room temperature (18-25°C) and apply as described in your Pelikine-compact™ kit insert.