

1. Product Identifier

SeramunStab®STplus	ST-311-#-STplus	
SeramunStab®STpoly	ST-330-#-STpoly	
SeramunStab®STA2	ST-340-#-STA2	
SeramunStab®STM	ST-370-#-STM	
SeramunStab®STM	ST-372-#-STM	(colourless customised version)
SeramunStab®STC	ST-380-#-STC	
SeramunStab®STC	ST-383-#-STC	(colourless customised version)

2. Effective Components

These Stabilizer solutions are based on aqueous buffer systems with bovine serum albumin or casein and further protein stabilizing additives, optimized for distinct applications.

SeramunStab®STplus is based on a TRIS buffer and especially suitable for conjugates of sensitive monoclonal antibodies.

SeramunStab®STpoly is based on a MES buffer and is preferential for use with poly HRP conjugates.

SeramunStab®STA2 is based on a TRIS buffer and is a good choice of most conjugates of polyclonal antibodies.

SeramunStab®STM is based on a MES buffer and works proper with extreme low concentrated conjugates.

SeramunStab®STC is a MES buffer based stabilizer with casein for use in systems tending to high backgrounds (low cross effect).

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

3. Principle of Function

For stabilization of HRP conjugates the solutions provide optimum ambient conditions regarding pH value, ionic strength, hydrophilic-hydrophobic as well as ionic interactions, needed to safe the conformation and function of the enzyme as well as the antibody or biomolecule.

4. Instructions for Storage, Transport and Filling

SeramunStab®STplus, SeramunStab®STpoly, SeramunStab®STA2, SeramunStab®STM and SeramunStab®STC should be stored at 2 – 8 °C in tightly closed vessels. The shelf life is 36 months in the unopened original package from the date of production.

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

Any filling or decanting into other vessels has to be done under low-germ conditions 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.

5. General Instructions for Use

Only qualified staff, who are familiar with the production of immunological tests, is permitted to handle SeramunStab®STplus, SeramunStab®STpoly, SeramunStab®STA2, SeramunStab®STM and SeramunStab®STC.

The solutions contain bovine serum albumin and casein respectively. This may result in slight shifts of the product properties. Therefore it is recommended to check every new lot for its application in the planned test systems. A reservation of distinct lots is possible.

The stabilizer solutions SeramunStab®STplus, SeramunStab®STpoly, SeramunStab®STA2, SeramunStab®STM and SeramunStab®STC are applied undiluted. The HRP conjugates should be diluted stepwise in the stabilizer solution, depending on the initial concentration and the planned final concentration. Depending on the requirements of the test system concentrations between 1 ng/ml and more than 5 µg/ml are suitable.

Conjugate solutions on the basis of SeramunStab®STplus, SeramunStab®STpoly, SeramunStab®STA2, SeramunStab®STM and SeramunStab®STC are suitable for ELISA, micro arrays and membrane based assays.

To suppress undesirable effects it is possible to add e.g. HAMA binder and / or further species specific proteins to the solutions.

For identification purposes it is possible to add dyes. In case of a request, please contact us.

Special details / Limitations

SeramunStab®STplus

Under the influence of elevated temperatures the solution develops a darker colour. The stabilizing effect is not influenced.

SeramunStab®STpoly

In case of stabilization of Streptavidin-poly-HRP increased background signals may occur depending on the used BSA lot.

SeramunStab®STM

In connection with Ca-binding proteins undesirable effects are possible.

All applications and notes given in this datasheet are based on our experience mainly with tests of the company Seramun. Beyond this much more applications are possible.

6. Literature

Maria M. Anderson: Protein stabilization. Some methods and mechanisms, Doctoral Dissertation Lund University 1999

Majorie Smith et.al.: Stabilised Antibodies, International Patent Application WO 93/08837

K. Lippert, E.A. Galinski: Enzyme stabilization by ectoine-type compatible solutes: protection against heating, freezing and drying, Appl. Microbiol. Biotech. 37, 61-65 (1994)

7. Symbols used

	Catalogue number		Temperature limitation
	Batch code		Do not reuse
	Hersteller		Used by
	Consult instruction for use		Keep away from sunlight