

Human anti-saccharomyces cerevisiae antibody (IgG) ELISA Kit

Catalog No. CSB-E09556h

(96 tests)

- This immunoassay kit allows for the in vitro semi-quantitative determination of human anti-saccharomyces cerevisiae antibody (IgG) concentrations in serum.
- Expiration date six months from the date of manufacture
- FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

PRINCIPLE OF THE ASSAY

The microtiter plate provided in this kit has been pre-coated with specific antigen. Samples are then added to the appropriate microtiter plate wells and incubated. Then add Horseradish Peroxidase (HRP)-conjugated -anti-human IgG to each well and incubate. Finally, substrate solutions are added to each well. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm ± 2 nm. Calculate the valence of human anti-saccharomyces cerevisiae antibody (IgG) in the samples.

SPECIFICITY

This assay recognizes human anti-saccharomyces cerevisiae antibody(IgG). No significant cross-reactivity or interference was observed.

MATERIALS PROVIDED

Reagent	Quantity
Assay plate	1
Sample Diluent	2 x 20 ml
HRP-conjugate	1 x 120µl
HRP-conjugate Diluent	1 x 20 ml
Wash Buffer	1 x 20ml
	(25×concentrate)
TMB Substrate	1 x 10 ml
Stop Solution	1 x 10 ml
Positive Control	1 x 800µl
Negative Control	1 x 800µl

STORAGE

 Unopened test kits should be stored at 2-8°C upon receipt and the microtiter plate should be kept in a sealed bag. The test kit may be used throughout the expiration date of the kit.
 Refer to the package label for the expiration date. 2. A microtiter plate reader with a bandwidth of 10 nm or less and an optical density range of 0-3 OD or greater at 450nm wavelength is acceptable for use in absorbance

measurement.

REAGENT PREPARATION

Bring all reagents to room temperature before use.

1. Wash Buffer If crystals have formed in the concentrate,

warm up to room temperature and mix gently until the

crystals have completely dissolved. Dilute 20 ml of Wash

Buffer Concentrate into deionized or distilled water to prepare

500 ml of Wash Buffer.

2. HRP-conjugate Dilute to the working concentration using

HRP-conjugate Diluent(1:100), respectively.

Precaution: The Stop Solution provided with this kit is an acid solution. Wear

eye, hand, face, and clothing protection when using this material.

OTHER SUPPLIES REQUIRED

Microplate reader capable of measuring absorbance at 450

nm, with the correction wavelength set at 540 nm or 570 nm.

Pipettes and pipette tips.

Deionized or distilled water.

Squirt bottle, manifold dispenser, or automated microplate

washer.

SAMPLE COLLECTION AND STORAGE

• Serum Use a serum separator tube (SST) and allow

samples to clot for 30 minutes before centrifugation for 15

minutes at 1000 g. Remove serum and assay immediately or

aliquot and store samples at -20° C. Avoid repeated

freeze-thaw cycles.

Note: Grossly hemolyzed samples are not suitable for use in this assay.

ASSAY PROCEDURE

1. Bring all reagents and samples to room temperature before

use. It is recommended that all samples, and controls be

assayed in duplicate.

2. Add 100µl of Positive Control and Negative Control,

respectively. Add 100µl of Sample per well. Cover with the

adhesive strip. Incubate for 60 minutes at 37° C.

- 3. Aspirate each well and wash, repeating the process for a total of three washes. Wash by filling each well with Wash Buffer (200µl) using a squirt bottle, multi-channel pipette, manifold dispenser or autowasher. Complete removal of liquid at each step is essential to good performance. After the last wash, remove any remaining Wash Buffer by aspirating or decanting. Invert the plate and blot it against clean paper towels.
- 4. Add 100µl of HRP-conjugate working solution to each well. Incubate for 30 minutes at 37°C. HRP-conjugate working solution may appear cloudy. Warm up to room temperature and mix gently until solution appears uniform.
- 5. Wash plate **five** times as before.
- Add 90µl of TMB Substrate to each well. Incubate in 20 minutes at 37°C. Keeping the plate away from drafts and other temperature fluctuations in the dark.
- Add 50µl of Stop Solution to each well. If color change does not appear uniform, gently tap the plate to ensure thorough mixing.

8. Determine the optical density of each well within 30 minutes,

using a microplate reader set to 450 nm.

CALCULATION OF RESULTS

For calculation the valence of human anti-saccharomyces

cerevisiae antibody (IgG), compare the sample well with control.

While ODsample≥2.1x ODnegative: Positive

While ODsample < 2.1x ODnegative: Negative

LIMITATIONS OF THE PROCEDURE

The kit should not be used beyond the expiration date on the

kit label.

Do not mix or substitute reagents with those from other lots or

sources.

Any variation in operator, pipetting technique, washing

technique, incubation time or temperature, and kit age can

cause variation in binding.

• This assay is designed to eliminate interference by soluble

receptors, binding proteins, and other factors present in

biological samples. Until all factors have been tested in the

Immunoassay, the possibility of interference cannot be excluded.

TECHNICAL HINTS

- When mixing or reconstituting protein solutions, always avoid foaming.
- To avoid cross-contamination, change pipette tips between sample additions, and between reagent additions. Also, use separate reservoirs for each reagent.
- When using an automated plate washer, adding a 30 second soak period following the addition of wash buffer, and/or rotating the plate 180 degrees between wash steps may improve assay precision.
- To ensure accurate results, proper adhesion of plate sealers during incubation steps is necessary.
- Substrate Solution should remain colorless until added to the plate. Keep Substrate Solution protected from light. Substrate Solution should change from colorless to gradations of blue.
- Stop Solution should be added to the plate in the same order as the Substrate Solution. The color developed in the wells will turn from blue to yellow upon addition of the Stop Solution.

8

Wells that are green in color indicate that the Stop Solution has not mixed thoroughly with the Substrate Solution.