



# Blocking Reagents

— Synthetic polymer type blocking reagent —

- Based on synthetic macromolecule (contains synthetic polymers)
  - # Getting very reliable data because the difference between lots is the minimal.
  - # Excellent Stability against boiling, shaking, freeze-thawing and autoclaving.
- No contain a material of an animal source.
  - # Inhibits cross-reaction coming from bio-molecules.
  - # Does not contain any biohazard components (ex. BSE etc.).

—Usage—

- Use it like usual blocking reagents
- Use from 1 to 25-fold dilution ---recommend 5-fold dilution by saline---
- Recommend dry-treatment after blocking

—Precautions for use—

The product contain 0.09% sodium azide as a preservatives. Be careful of intake by mistake or waste.



## Blocking

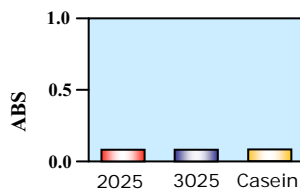


Figure 1 The amount of non-specific adsorbed POD-conjugate

Immunoplate well (Maxisorp F96, Nunc) is treated with a 5-fold diluted blocking reagent (at room temp., 15-60 min.), POD- conjugate solution was added and incubated at 37°C for 120 min. After washing with PBS containing 0.05% tween20 (PBST), added color reagent for POD (H<sub>2</sub>O<sub>2</sub>-TMBZ system) and evaluated the amount of POD which remained in the well. No significant difference between Casein and [NB2025, NB3025].

## Stabilization of Immobilized-Antibody

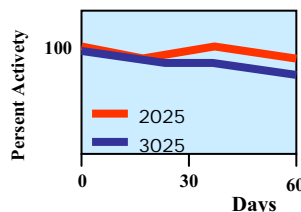


Figure 2 Remaining activity of immobilized-antibody that was stored at 50°C

Immunoplate well (Maxisorp F96, Nunc) is immobilized with anti-mouse-IgG -antibody. After blocking with 5-fold diluted blocking reagent (at room temp., 120min.), the plate which has de-air-packed in aluminum bag, was stored in 50°C. The activity of immobilized-antibody is evaluated with sandwich-ELISA system.

## Tolerance against detergent

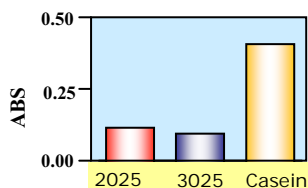


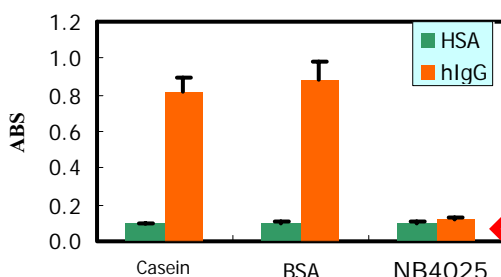
Figure 3 The amount of non-specific adsorbed POD-conjugate

After blocking (see above), POD-conjugate diluted with PBST was added and incubated at 37°C for 120 min. After washing with PBST, added color reagent for POD (H<sub>2</sub>O<sub>2</sub>-TMBZ system) and evaluated the amount of POD which remained in the well.

Description	Catalog #	volume	Price
Blocking reagent-NB2025	NOF-51005011	250ml	¥12000 / \$115 / €93
Blocking reagent-NB3025	NOF-51005012	250ml	¥12000 / \$115 / €93

Note: Store at 4 °C 0.09% sodium azide

## Especially for human IgG in sera



[Methods]

After blocking a immuno-plate(5-fold dilution by saline, at 37 degree C for 2-hrs) , human sera sample(20-fold dilution by PBS) was added. After incubation for 2-hrs at 37 degree C, the plate was washed by 0.05% tween20-PBS. Then POD-labeled antibodies were added and allowed it to react 37 degree C for 2-hrs. After washing, coloring reaction (TMBZ) was conducted. Non-specific binding substances of sera was analyzed.

**Non-specific binding of hIgG was suppressed efficiency.**

\*HSA: human serum albumin  
hIgG: human IgG

Description	Catalog #	volume	Price
Blocking reagent-NB4025	NOF-51005013	250ml	¥12000 / \$115 / €93

Note: Store at 4 °C 0.09% sodium azide

# Peroxidase Stabilizer

— Synthetic polymer type peroxidase stabilizer —

—Features—

- Peroxidase stabilizer for enzyme Immunoassay
- Do not contain any bio-derived materials
- Excellent stability for POD conjugate protein

—Usage—

- Use it like usual stabilizer
- Use from 1 to 25-fold dilution --- recommend stock solution ---
- Recommend dilute POD conjugate over 10 fold



POD Stability

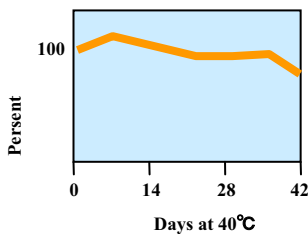


Figure 4 Remaining activity of POD that was stored at 40°C

POD was diluted to optimum concentration (0.1mg/mL in this example) with the direct POD stabilizer solution. POD solution was filtrated with 0.22µm pore-size filter, and store at 40°C. POD activity was measures with H<sub>2</sub>O<sub>2</sub>-ABTS coloring-system. The activity at initial time (0 days) was indicated as 100 %.

Description	Catalog #	volume	Price
Peroxidase stabilizer-ST2010	NOF-51005014	100ml	¥20000 / \$191 / €154

Note: Store at 4 °C 0.09% sodium azide

# ALP Stabilizer

— Synthetic polymer type alkaline phosphatase stabilizer —

—Features—

- ALP stabilizer for enzyme Immunoassay
- Do not contain any bio-derived materials
- Excellent stability for ALP conjugate protein

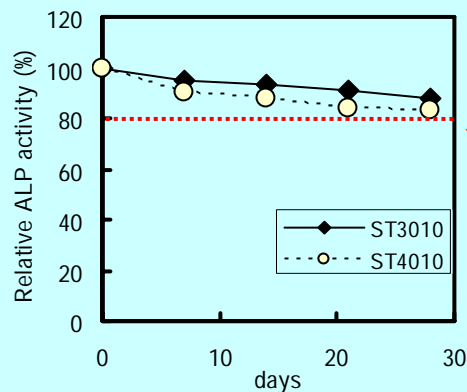
—Usage—

- Use it like usual stabilizer
- Use from 1 to 25-fold dilution --- recommend stock solution ---
- Recommend dilute ALP conjugate over 10 fold



—Precautions for use—

The product contain 0.09% sodium azide as a preservatives. Be careful of intake by mistake or waste.



(Method)

ALP conjugate was diluted 100 times by ST3010 or ST4010. The solutions were stored at 37 degree C for 4 weeks. The ALP activities were estimated by ALP assay kit. 0 days activity was indicated as 100%

**Result shows ALP activity retained at least 80% after 4 weeks at 37 °C**

Description	Catalog #	volume	Price
ALP stabilizer-ST3010	NOF-51005015	100ml	¥20000 / \$191 / €154
ALP stabilizer-ST4010	NOF-51005016	100ml	¥20000 / \$191 / €154

Note: Store at 4 °C 0.09% sodium azide

Distributor



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