

OYC Immunologicals

Interference Scavenger for Immunoassay



In the R&D of diagnostic immunoassays, the elimination of immunoassay interferences is important to ensure high quality performance. Patient samples sometimes include heterophilic antibodies such as Rheumatoid factor (Rf), Human Anti Mouse Antibodies (HAMA) and so on to interfere with clinical assays, which leads to false assay results because of those cross-reactions with reagent components. OYC presents “SCAVENGERS” as raw materials that eliminate such matrix interference. Would you like to try our “SCAVENGERS” to construct reagents with high measurement accuracy?

For improved precision and accuracy in immunodiagnostics

Immunoassay interferences

Immunoassay interferences caused by sample-derived materials can affect the accuracy of the assay results (false positives or false negatives).

- **Antibody Interference**
Rf and HAMA can cause interference in immunoassay.
- **Detection Interference**
Cross-reactions between alkaline phosphatase (ALP) for enzyme conjugate and heterophilic antibodies in samples can cause interference in immunoassays.

Interferences Scavenger for Immunoassays

Optimal Scavenger Tech improves precision and accuracy by eliminating the interference in immunoassays.

Interferences type	Interference substances	Scavengers
Antibody	Rf	Rabbit IgG Rabbit IgG plus
	HAMA	Mouse Serum Mouse IgG
Detection	Heterophilic antibodies interacting with ALP	Scavenger ALP

HOT UNIQUE PRODUCT “Scavenger ALP”

- In collaboration with various Japanese immunodiagnostic reagent manufacturers, we have developed “Scavenger ALP” to include a certain variation of proteins to eliminate interference of immunological assay against enzyme label ALP.
- This interference was generally caused by the compatibility of the reagent components with the individual patient sample. Through our experience, our “Scavenger ALP” was effective worldwide for our customers. Please try it to give a solution for your usage!

PRODUCT INFORMATION

Scavenger ALP *from Calf intestine*

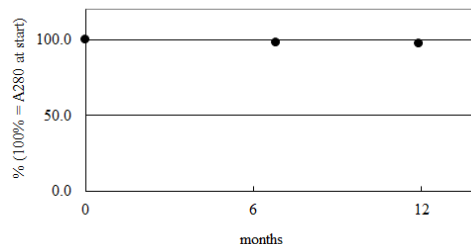
Product Item	Catalog No.
Scavenger ALP	47814900

- Protein contents (≥ 5 mg/mL)
- ALP activity (≤ 0.005 U/mg protein)
- Product form: Liquid

We selected a wide range of fractions to have scavenger capability from raw material, which are effective due to the matching of reagent components with patient samples. This product guarantees only the protein content and its stability. Please carefully try several lots compatible with your reagents and QC panels.



Stability data

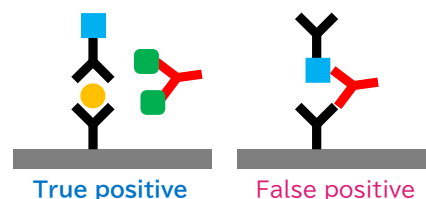
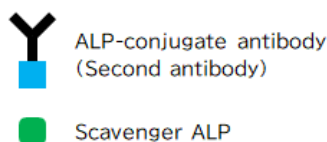
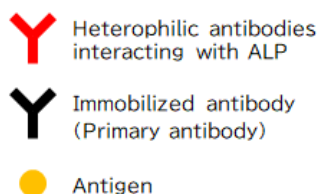


*The protein content is measured after filter filtration.

ESTIMATED APPLICATION

Scavenger ALP added to the assay conjugate eliminates the heterophilic interference caused by human samples.

- Reduction of background noise.
- Suppression of false positives and false negatives.



REFERENCE

- Yuriko Egashira, *et al.*, (2019) *Scientific Reports*. 9, 12359.
- Anu S Maharjan, *et al.*, (2019) *Practical Laboratory Medicine* 17, e00131.

RELATED PRODUCTS

ALP for immunoassays to have good match with our Scavenger ALP

ALP5000 (ALP-H) *from Calf intestine*

Product Item	Catalog No.
ALP5000	47785955

- Specific activity: > 5000 U/mg protein
- Purity(HPLC): $\geq 97\%$

ALP2500 (ALP-L) *from Calf intestine*

Product Item	Catalog No.
ALP2500	47825924

- Specific activity: > 2500 U/mg protein
- Purity(HPLC): $\geq 97\%$

OYC supports the development and manufacture of IVD reagents for our customers



ORIENTAL YEAST CO.,LTD.

Please contact our sales representative or visit the following website.

<https://www.oyc.co.jp/en/inquiry/index.html>