OYC IVD News Vo.1

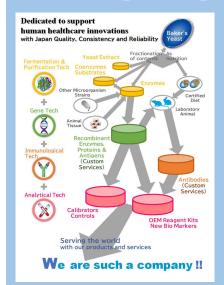
Who is OYC Bio?



We are such a company !!

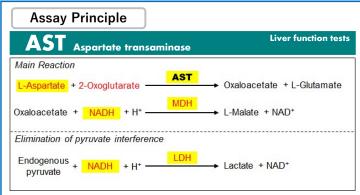
OYC IVD News VOI. 2 - Biochemicals for AST/ALT assay -

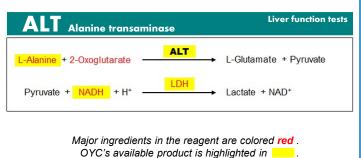
OYC Biochemicals

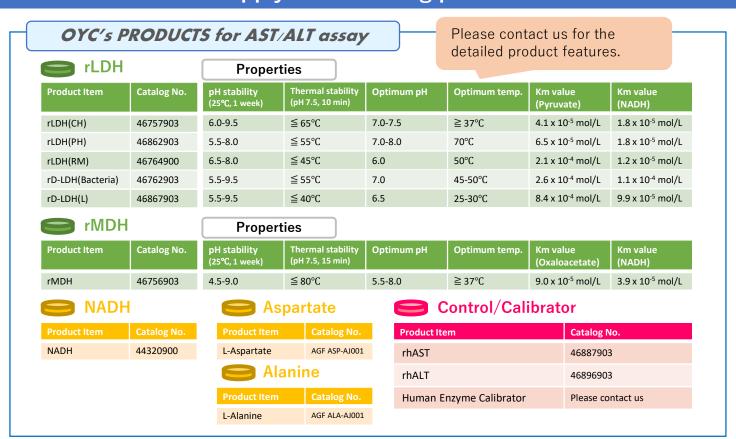


for AST/ALT assay

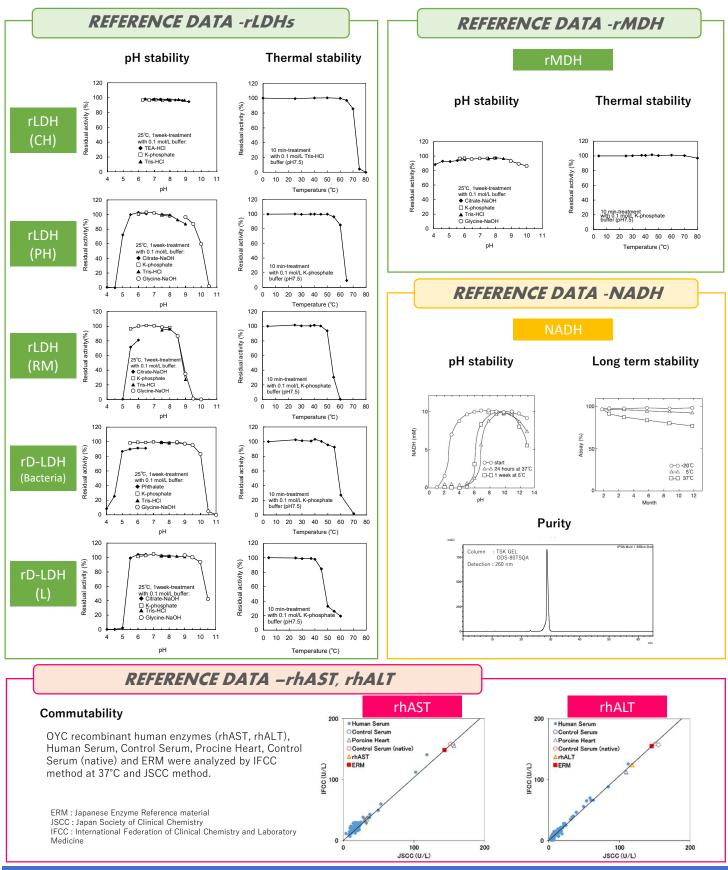
OYC's Biochemicals are the most suitable for the development and manufacturing of IVD reagents. All products have passed stringent product specification. We have been supplying variety of raw materials for AST/ALT assays in liver function tests based on our valuable customers' requests. We are very proud to inform you that we offer a wide range of those products for fitting your R&D concept of AST/ALT assays.







OYC IVD News VOI. 2 - Biochemicals for AST/ALT assay -



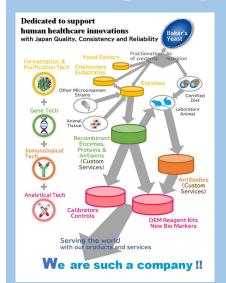
OYC supports the development and manufacture of IVD reagents for our customers.



Please contact our sales representative or visit the following website.

OYC IVD News VOI. 3 - Biochemicals for CK assay -

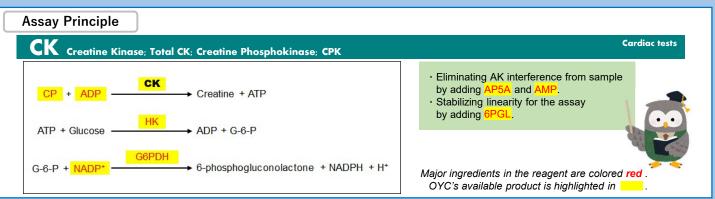
OYC Biochemicals

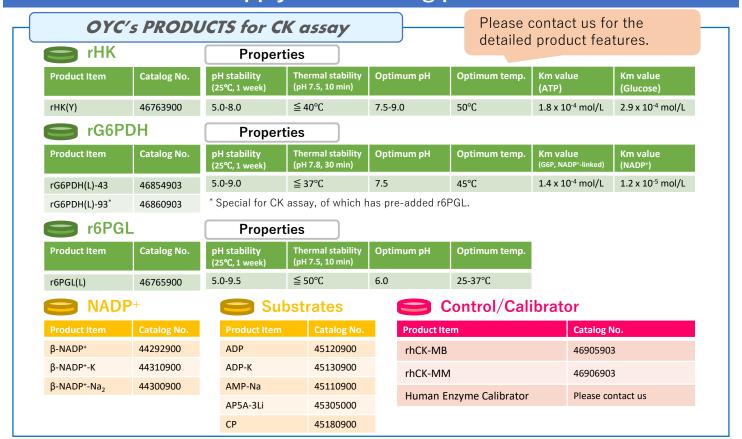


for CK assay

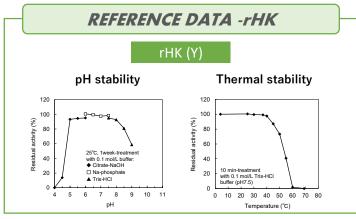
OYC's Biochemicals are the most suitable materials for the development and manufacturing (production) of IVD reagents. All products have passed through stringent product specifications. We have been supplying our customers a variety of raw materials for CK assays' including r6PGL as Linearity stabilizer / enhancer for the assay. Both of AP5A and AMP are as to eliminate AK interference as well.

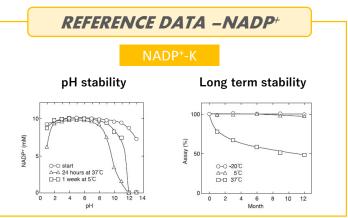
Would you like to try these combinations above to have something better?

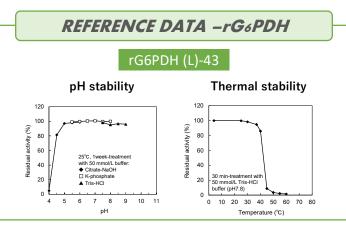


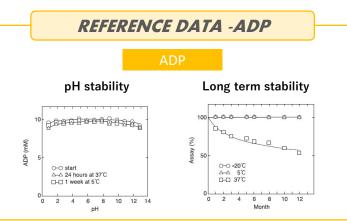


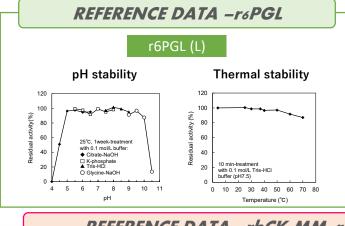
OYC IVD News VOI. 3 - Biochemicals for CK assay -

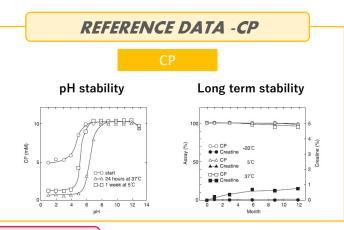












REFERENCE DATA -rhCK-MM, rhCK-MB

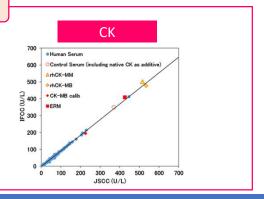
Commutability

OYC recombinant human enzymes (rhCK-MM, rhCK-MB), Human Serum, Control Serum (including native CK as additive), CK-MB calibrator and ERM were analyzed by IFCC method at 37°C and also JSCC method.

ERM : Enzyme Reference Material certified JCCLS

JSCC : Japan Society of Clinical Chemistry

IFCC : International Federation of Clinical Chemistry and Laboratory Medicine



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



Please contact our sales representative or visit the following website.

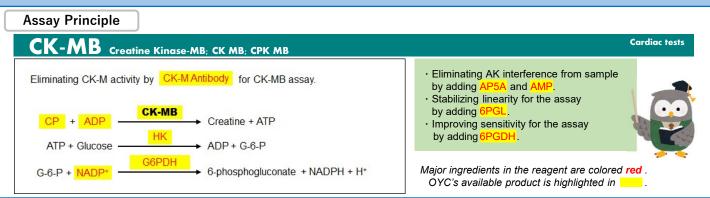
OYC IVD News VOI. 4 - Biochemicals for CK-MB assay -

OYC Biochemicals



for CK-MB assay

OYC's Biochemicals are the most suitable materials for the development and manufacture of IVD reagents. All products have passed through stringent product specifications. In addition to the raw materials (listed in published Vol. 3) for total CK reagent, here both of anti CK-M inhibiting antibody and r6PGDH are highlighted particularly for CK-MB assays. r6PGDH is an additional enzyme useful to amplify absorbance change as to meet the lowest detection limit. Would you like to try the excellent CK-MB reagents in combination with these materials?



OYC can supply the following products in bulk!

OYC's PRODUCTS for CK-MB assay

Please contact us for the detailed product features.

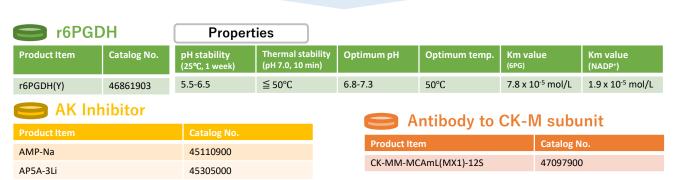
CHECK!

Please refer to "OYC IVD News Vol. 3" for detailed information on the main raw materials of CK reagents.

● Enzymes : rHK, rG6PDH, r6PGL

Coenzymes : NADP*Substrates : ADP, CP

Special Products for CK/CK-MB assays



OYC IVD News VOI. 4 - Biochemicals for CK-MB assay -

REFERENCE DATA -r6PGDH

Reaction that improve sensitivity

In samples with low CK-MB concentrations, the measuring signals are lower due to CK-M activity inhibition.

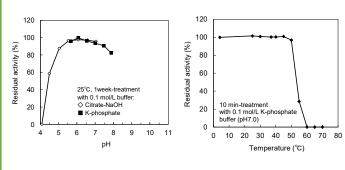
The addition of 6PGDH improves the sensitivity as amplifying resulted signal by two



r6PGDH (Y)

pH stability

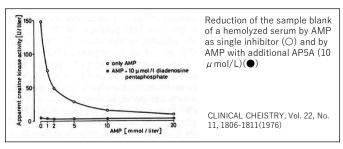
Thermal stability



REFERENCE DATA - AK inhibitor

Eliminate AK interference

AMP is a well-known AK inhibitor but not sufficient enough by itself. Combining AMP with AP5A together is highly recommended as described below.



AMP-Na

Long term stability

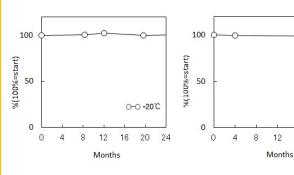
AP5A-3Li

Long term stability

0-0 -20°C

16 20

24



REFERENCE DATA -Antibody to CK-M subunit

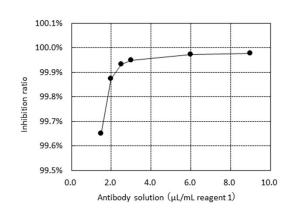
Eliminate CK-M activity

CK-MM-MCA (monoclonal antibody) binds to the CK-M subunit in serum, which inhibits the activity of the M subunit.

CK-MM-MCA

Inhibition ratio

Sample: 5000 U/L rCK-MM



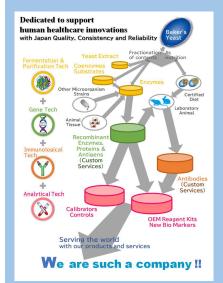
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Please contact our sales representative or visit the following website.

OYC IVD News VOI. 5 - Biochemicals for Ammonia assay -

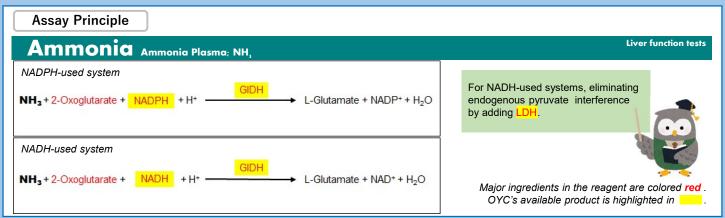
OYC Biochemicals

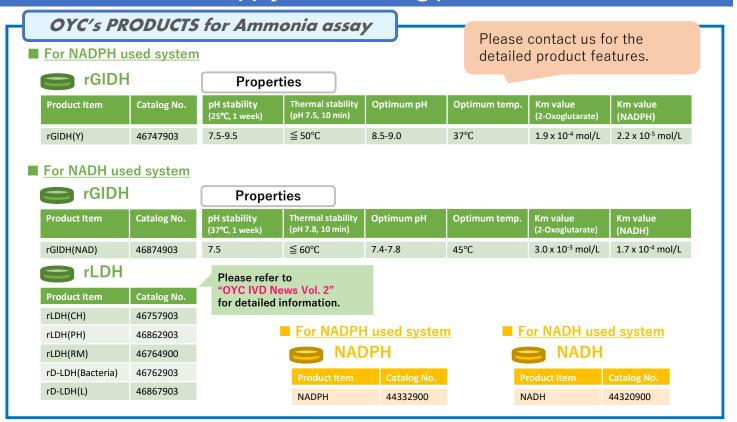


for Ammonia assay

OYC's Biochemicals are the most suitable for the development and manufacturing of IVD reagents. All products have passed stringent product specification. We supply a variety of raw materials for Ammonia assays in liver function tests based on our valuable customers' requests.

Would you like to get ammonia reagents that match your concept by combining our raw materials?





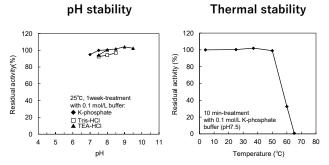
OYC IVD News VOI. 5 - Biochemicals for Ammonia assay -

REFERENCE DATA -rGIDHs

OYC has two types of rGIDH adapted the NADPH or NADH used system.

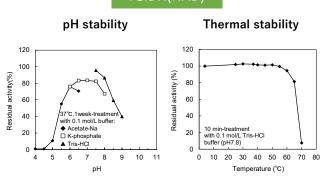
■ For NADPH used system

rGIDH(Y)



■ For NADH used system

rGIDH(NAD)

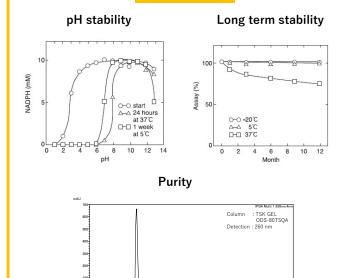




rGIDH is also useful as a raw material for Urea Nitrogen (UN) reagents. Details will be introduced in the next news, "OYC IVD News Vol.6".

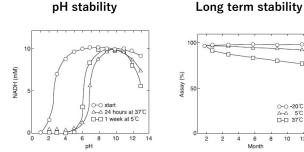
REFERENCE DATA - NADPH

NADDH



REFERENCE DATA - NADH

NADH



Purity POLITY Column: TSK GEL ODS-80TSQA Detection: 260 nm

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Please contact our sales representative or visit the following website.

OYC IVD News VOI. 6 - Biochemicals for UN assay -

OYC Biochemicals



for Urea Nitrogen assay

OYC's Biochemicals are the most suitable for the development and manufacture of IVD reagents.

In addition to rGIDH, NADPH and NADH (listed in published Vol. 5) required for the measurement of ammonia, this news focus here on rUrease and rICDH as raw materials for Urea Nitrogen (UN) assays. rICDH is an enzyme useful for maintaining and extending the measurement range by regenerating the coenzyme consumed in the ammonia scavenging reaction.

Would you like to try a better UN reagent with these combinations?

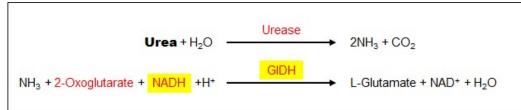
Assay Principle

Urea Nitrogen, UN

Renal function tests

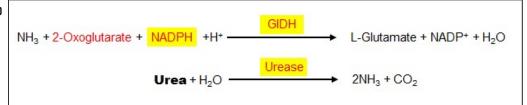
■ Urease · GIDH method

(GIDH-based kinetic assay)



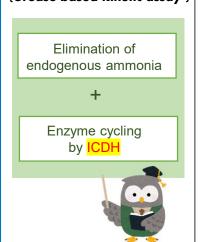
■ Urease · GIDH method

(Urease-based kinetic assay)



■ Urease · GIDH · ICDH method

(Urease-based kinetic assay)



Major ingredients in the reagent

are colored **red**OYC's available product is highlighted in

1st Reaction (Ammonia Elimination) L-Glutamate + H₂O NH₃ + 2-Oxoglutarate NADP+ NADPH 2-Oxoglutarate + CO2 Isocitrate **ICDH** 2nd Reaction (Urea Nitrogen Measurement) Urease Urea + H₂O 2NH3 + CO2 NH₃ + 2-Oxoglutarate GIDH L-Glutamate + NADP+ + H₂O + NADPH + H+

OYC IVD News VOI. 6 - Biochemicals for UN assay -

OYC's PRODUCTS for UN assay



Please refer to "OYC IVD News Vol. 5" for detailed information on rGIDHs and Coenzymes.

Enzymes : rGIDH(Y)

rGIDH(NAD)

Coenzymes: NADPH, NADH

Special Products for UN assays

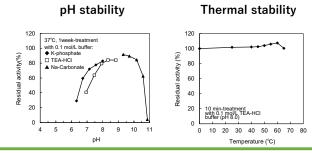
r Ureas	se	Propert	ies			
Product Item	Catalog No.	pH stability (37°C, 1 week)	Thermal stability (pH 8.0, 10 min)	Optimum pH	Optimum temp.	Km value (Urea)
rUrease	46753900	8.0-9.5	≦ 65°C	6.0	≧ 37°C	1.9 x 10 ⁻¹ mol/L
ICDH		Propert	ies			
Product Item	Catalog No.	pH stability (25°C, 1 week)	Thermal stability (pH 8.0, 10 min)	Optimum pH	Optimum temp.	Km value (Isocitrate)
rICDH(Tag)	46745903	6.5-8.5	≦ 65°C	8.5	≧ 37°C	6.0 x 10 ⁻⁵ mol/L

REFERENCE DATA -rUrease

Most suited to Urease-based UN kinetic assay

- Unique enzyme (Designed mutant)
- Higher Km for Urea than that of Urease derived from Jack bean
- Ready to direct use (not require the addition of boric acid (Urease inhibitor))

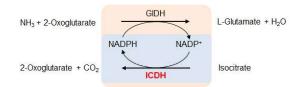
rUrease



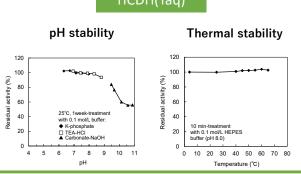
REFERENCE DATA -rICDH

NADPH regeneration reaction by ICDH

- Ensure the measurement range of UN reagents
- Improve the liquid stability of reagents



rICDH(Taq)



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Please contact our sales representative or visit the following website.

OYC IVD News VOI. 7 - Biochemicals for Glucose assay -

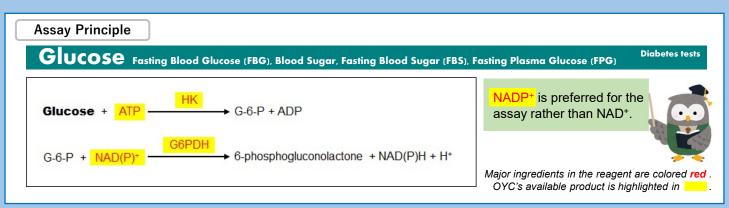
OYC Biochemicals

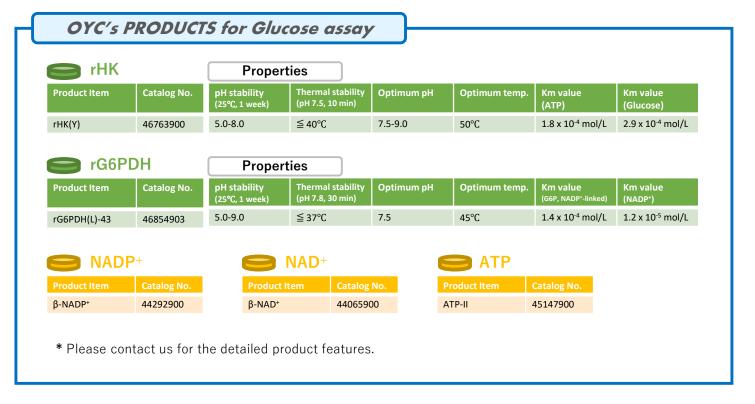


for Glucose assay

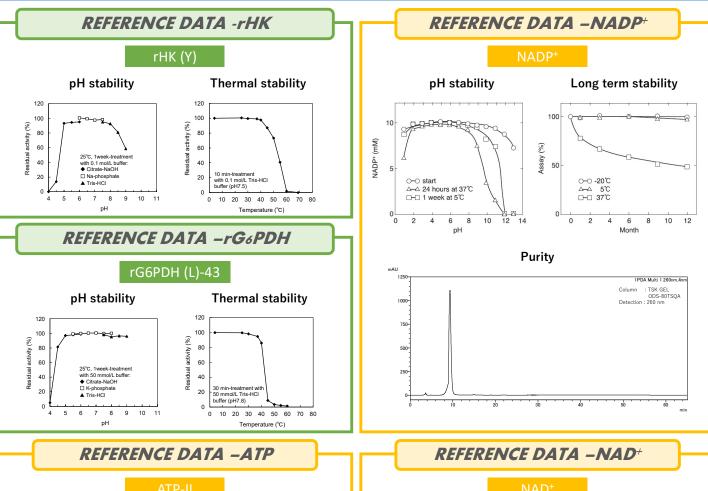
OYC's Biochemicals are the most suitable materials for the development and manufacture of IVD reagents.

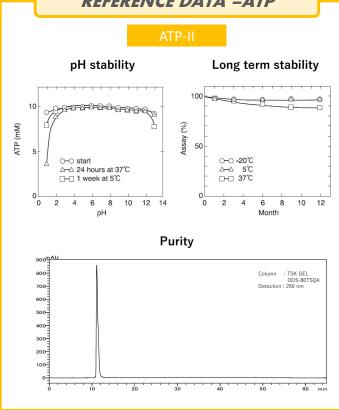
All products have passed through stringent product specifications. We supply our customers with various raw materials for Glucose (Blood Sugar) reagents for the HK-G6PDH method. NADP+ is an ideal coenzyme to erase matrix interference from clinical samples. Would you like to combine OYC raw materials to create an optimal glucose reagent?

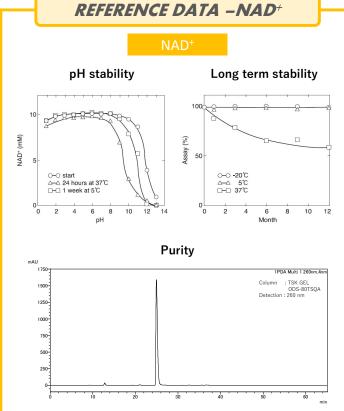




OYC IVD News VOI. 7 - Biochemicals for Glucose assay -







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



Please contact our sales representative or visit the following website.

OYC IVD News VOI. 8 - Biochemicals for TG assay -

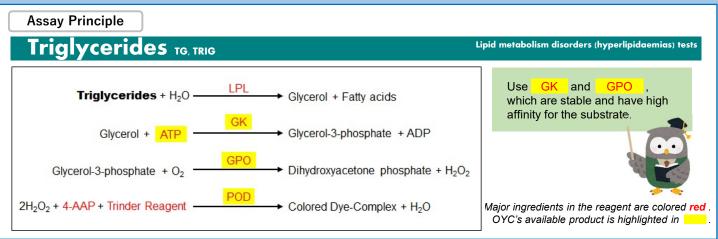
OYC Biochemicals

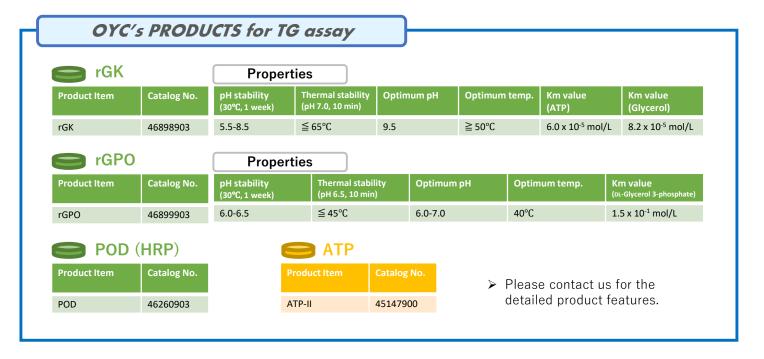


for Triglycerides assay

OYC's Biochemicals are the most suitable materials for the development and manufacture of IVD reagents. All products have passed through stringent product specifications.

We supply our customers a variety of Enzymes and Substrate for Triglycerides (TG) assay. Would you like to try OYC raw materials for the preparation of TG reagents?





OYC IVD News VOI. 8 - Biochemicals for TG assay -

REFERENCE DATA -rGK

rGK with features suitable for TG assay (GK-GPO).

OYC recombinant GK (Glycerol Kinase) is purified to high purity. rGK has the advantage of Thermal stability and low Km for glycerol.

rGK

pH stability Thermal stability 120 100 80 60 40 40 20 O Tris-HCl 0 Tis-HCl 0 Tis-HCl

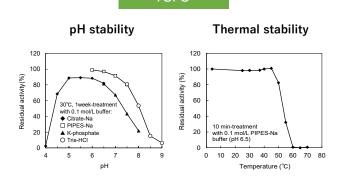
Residual activity(%)

REFERENCE DATA -rGPO

rGPO with features suitable for TG assay (GK-GPO).

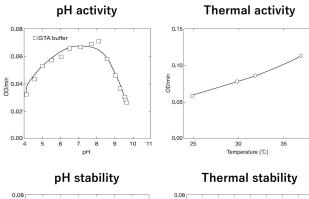
OYC recombinant GPO (Glycerol 3-Phosphate Oxidase) is purified to high purity. rGPO has the advantage of Thermal stability.

rGPO



REFERENCE DATA -POD

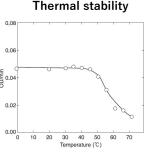
POD



GGTA buffer

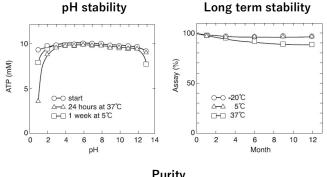
0.06

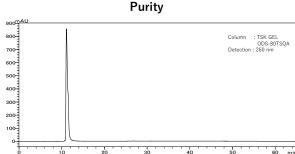
0.04



REFERENCE DATA -ATP

ΔΤΡ-ΙΙ





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Please contact our sales representative or visit the following website.

OYC IVD News VOI. 9 - Biochemicals for UA assay -

OYC Biochemicals

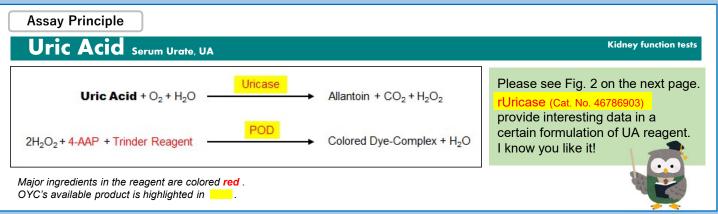


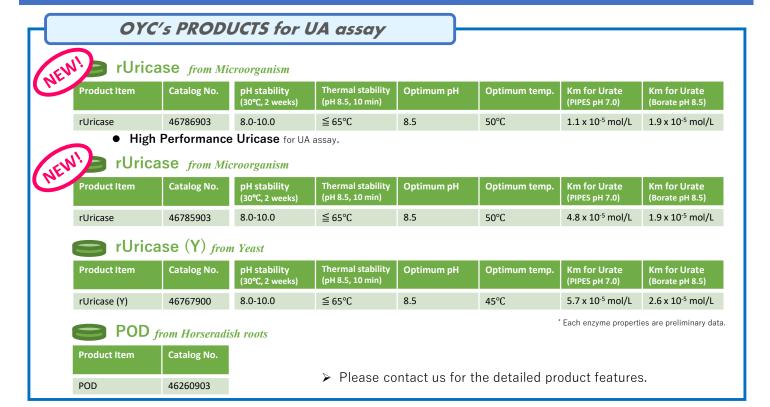
for Uric Acid (UA) assay

OYC's Biochemicals are the most suitable raw materials for the development and manufacture of IVD reagents. All products have passed through strict specifications at our Quality Assurance.

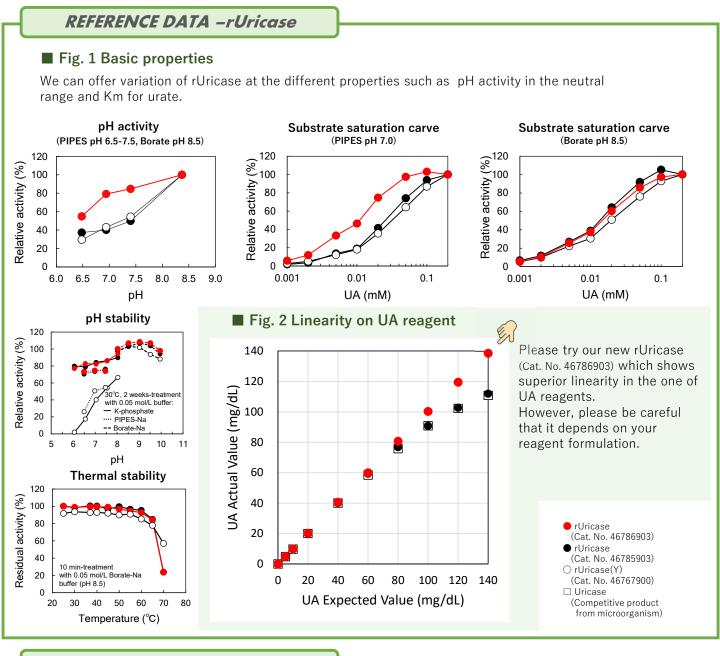
We are very glad to announce you that our new recombinant Uricase as Cat. No. 46786903 and Cat. No. 46785903 for uric acid (UA) assay.

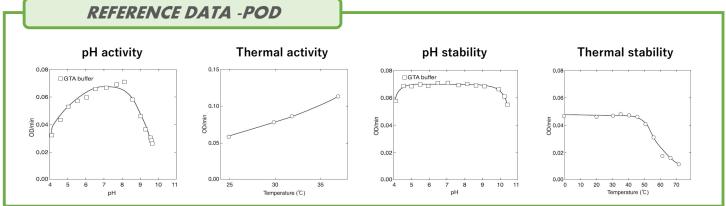
Now there are several rUricase for you to have an option to choose for your suitable reagent component. Would you please try our current and new rUricase up to your requirement?





OYC IVD News VOI. 9 - Biochemicals for UA assay -





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



Please contact our sales representative or visit the following website.

OYC IVD News VOI. 10 - Biochemicals for ChE assay -

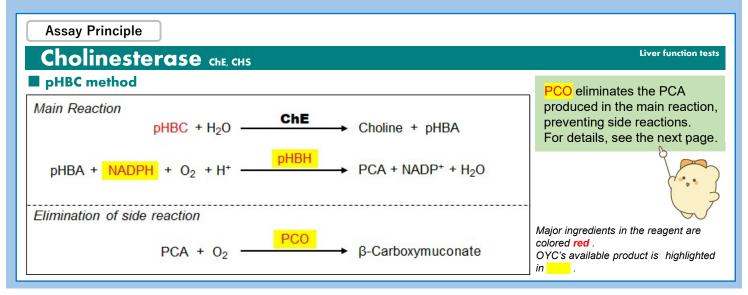
OYC Biochemicals

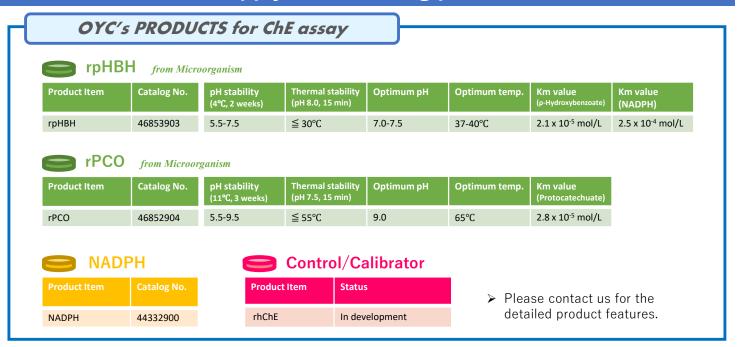


for Cholinesterase assay

Cholinesterase (ChE) assay is the important marker as one of the liver function tests. Its assay is also valuable for the diagnosis and treatment using ChE inhibitors and organophosphate poisoning. ChE is measured by two kinds of major methods such as chemical (colorimetric) and enzymatic methods. In Japan, the phydroxybenzoyl choline (pHBC) enzymatic method is approved as standard methods by JSCC (Japanese Society of Clinical Chemistry) since it allows measurement by molar extinction coefficient and has superior linearity.

OYC supplies a variety of raw materials for ChE JSCC method. Please try our products for ChE assay.





REFERENCE DATA -rpHBH

Features of pHBC method

- Possible to measure by molar extinction coefficient.
- Superior linearity in ChE assay.
- Less susceptible to biological pigments due to UV external photometry.

rpHBH

pH stability Thermal stability 120 120 100 100 Residual activity (%) Residual activity(%) 80 80 60 60 weeks-treatment 40 40 with 50 mmol/L buffer ◆ Acetate-NaOH 20 20 with 50 mmol/L Tris-maleate buffer (pH 8.0) ▲ Tris-maleate 10 30 рΗ Temperature (°C)

REFERENCE DATA -rPCO

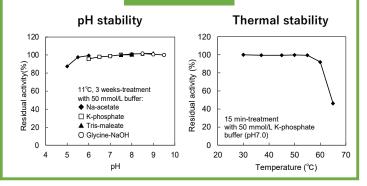
Elimination of side reaction of pHBH

pHBH also reacts with PCA as a side reaction which causes errors in pHBH assay results (see below).

PCA +
$$O_2$$
 PCA + H_2O_2

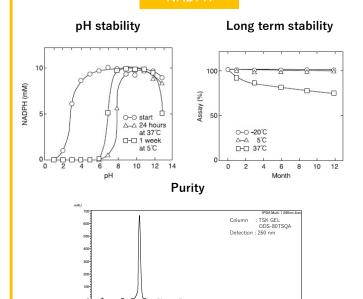
PCO eliminates PCA faster than pHBH which leads to accurate ChE assay.

rPCO



REFERENCE DATA - NADPH

NADDH

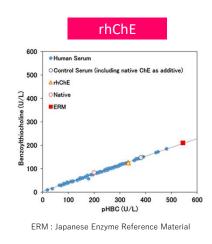


REFERENCE DATA -rhChE

Commutability

OYC recombinant human enzyme (rhChE), Human Serum, Control Serum (including native ChE as additive), Native and ERM were analyzed by pHBC* method and benzoylthiocholine* method.

*Substrate for measuring ChE activity



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



Please contact our sales representative or visit the following website.

OYC IVD News VOI. 11 - Biochemicals for TBA assay -

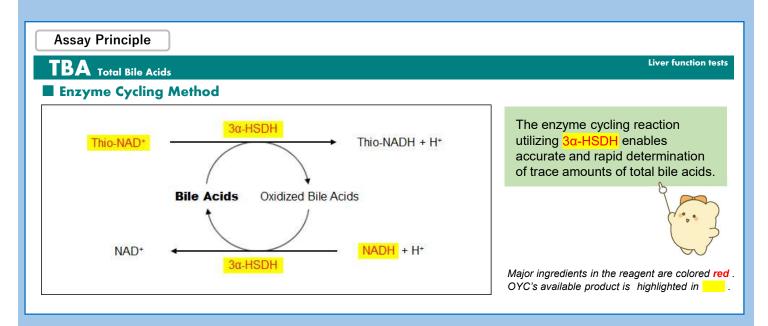
OYC Biochemicals

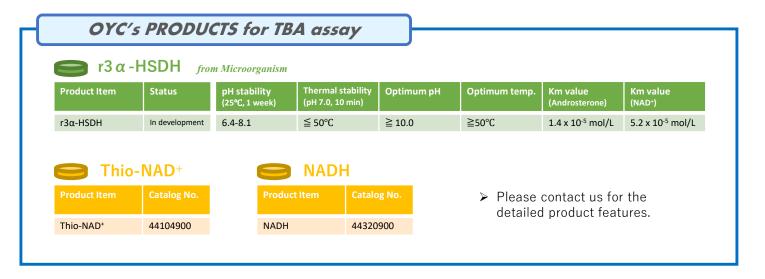


for TBA assay

Total Bile Acids (TBA) is a highly sensitive marker that can be used to analyze the early stages of liver dysfunction. Especially in China, TBA assay as part of the liver function test panel has been performed for early detection of liver diseases. In addition, the determination of serum TBA is useful as a common diagnostic test for liver function in veterinary animals.

OYC supplies raw materials for TBA reagents by enzyme cycling method to create high sensitive assay. Would you like to combine our products to create an optimal TBA reagent?



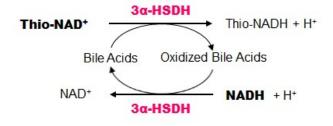


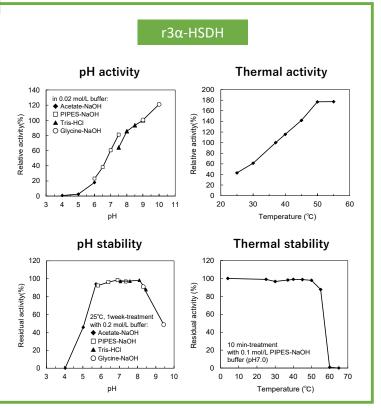
OYC IVD News VOI. 12 - Biochemicals for TBA assay -

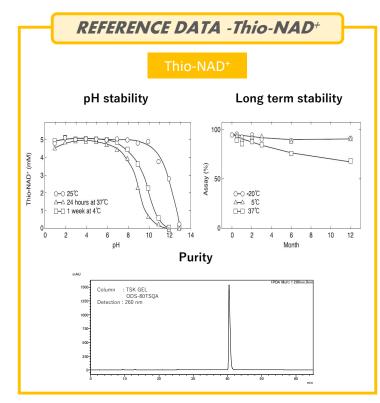
REFERENCE DATA -r3α-HSDH

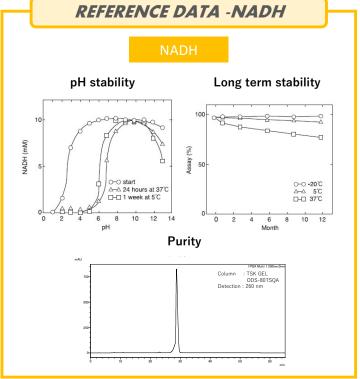
Highly sensitive assay using 3 α -HSDH

The enzyme cycling reaction by pairing enzyme (3α -HSDH) and coenzymes (Thio-NAD+/NADH) enables a significant signal amplification, and leads to a much higher detection sensitivity of the assay.









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



Please contact our sales representative or visit the following website.

OYC IVD News Vol.1

OYC Immunologicals



Contributing human healthcare

by high quality products for IVD reagents!

Oriental Yeast Co., Ltd. (OYC) has a long history of developing and producing Immunological products such as antigens, antibodies, calibrators and custom products to supply IVD manufactures worldwide. We, as a reliable partner, are real manufacturer to produce valuable bulk products to fit the needs of worldwide IVD requirements. We would like to introduce our immunological products with a history in this OYC IVD News.

We are always very glad to support you to develop high quality IVD immunological reagents.

We are strong in IVD immune market by 4 reasons!

1. Certified Lab Animal Diets & Higher Quality Lab Mice and Rabbits

OYC is a pioneer to develop and produce high quality of certified laboratory animal diets for both academia and pharmaceutical industry market under the spirit of "safe and secure" since 1951 in Japan. Our certified diets also enable a stable supply and higher quality of laboratory animals such as SPF mice and rabbits and so on, which also contribute to our Immuno products.



2. Fine state of art Recombinant & Immunizing Techs



Our **Gene Techs** always help us supply stable and **immune pure grade Antigens**. Our **Immunizing Techs** along with **high grade animals and diets** lead to a positive consequences on developing and producing higher quality of **Antibodies** for our IVD customers.

3. Long experience of Custom Services from A to Z

We keep challenging ourselves to offer custom services to develop and produce IVD Immune products **from recombinant proteins to antibodies**. We are available to make not only small scale, but also large bulk scale upon your requirements. Based on our long experience of our custom service, it can be your second lab and also factory. Please try our custom services as your partner.





4. Strict Quality Assurance



Through our experiences working with many worldwide IVD manufacturers, we have been learning their individual requirement for each product. We always tried to meet those requirements by face to face meetings as much as possible. Our goal is to support your R&D and production of IVD reagents based on a **high level of quality assurance**.

OYC IVD News Vol.1 - Immunologicals & Custom Service -

IMMUNOLOGICALS



Application	Test Item	Product		
Application	restriem	Antigens	Antibodies	
Inflammation	CRP	rCRP	CRP-IgG (rabbit polyclonal)	
IIIIaIIIIIatioii	CRP		CRP-MCA (mouse monoclonal)	
Wide and discondens	Beta-2-Microglobulin	rB2M	B2M-IgG (rabbit polyclonal)	
Kidney disorders	Cystatine-C	rCys-C	Cystatin-C-IgG (rabbit polyclonal)	
Heart attack	CK	rCK-MM, rCK-MB	CK-MM-MCA (mouse monoclonal)	
meart attack	Myoglobin	rMb	In development	

Please refer to "IVD News Biochemicals Vol.3 and Vol.4".

Application		Product	
Application		Native Enzymes	Recombinant Protein
Immunoaccay	Labeling & Detection	ALP, POD	rStreptavidin
Immunoassay	Interference Scavenger	scavenger-ALP	

 Details will be introduced in the future news.

CUSTOM SERVICE

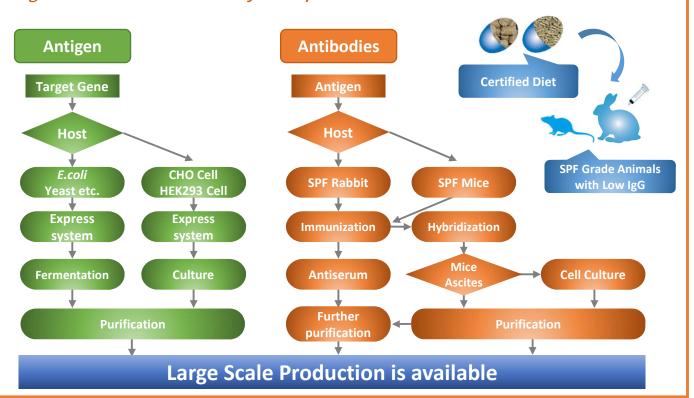


- Expression of Recombinant Protein (Antigens)
- Development of Monoclonal & Polyclonal Antibody
- Scale-up production

For more information on custom services, please contact us.

Custom Antigen & Antibody Development Services (CAAD)

OYC offers a full suite of high quality custom services to develop and produce antigens and antibodies to meet your requirements.



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



Please contact our sales representative or visit the following website.

OYC IVD News Vol.2 -Interference Scavenger for Immunoassay-

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 _{Ig} G Rabbit IgG plus
Antibody	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 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!

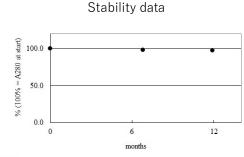
PRODUCT INFORMATION

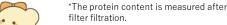


Product Item Catalog No.
Scavenger ALP 47814900

- 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.

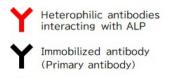




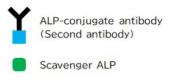
ESTIMATED APPLICATION

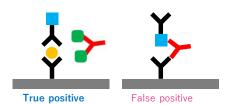
Scavenger ALP added to the assay conjugate eliminates the heterophilic interference caused by human samples.

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



Antigen



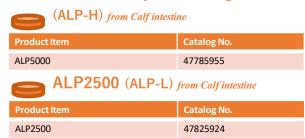


REFERENCE

- 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



- Specific activity: > 5000 U/mg protein
- Purity(HPLC) : \geq 97%
- Specific activity: > 2500 U/mg protein
- Purity(HPLC) : \geq 97%

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



Please contact our sales representative or visit the following website.

OYC IVD News Vol.3 - Streptavidin for Immunoassay -

OYC Immunologicals



Recombinant Streptavidin

Streptavidin, as one of the components of immunoassays, is useful for immobilizing to solid phase and labeling with enzymes.

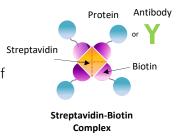
OYC recombinant Streptavidin is developed as a suitable tool to develop and produce diagnostic and also research test kits by passing stringent product specifications to ensure high biotin affinity.

Why do not you try our Streptavidin for your test kits to create higher sensitivity and also easy to construct your ones? Free of charge sample is always available for your evaluation!

For highly sensitive assays in immunodiagnostics

What's Streptavidin?

- Streptavidin is a tetrameric protein to bind biotin.
- Streptavidin-biotin high binding is known as one of the most stable noncovalent interactions and is stably maintained over a wide range of temperature, pH and denaturing agent.

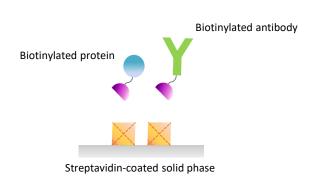


Application for Immunoassays

Streptavidin/Biotin system has been widely used in the field of biotechnology such as immobilization and labeling applied for diagnostics and research test kits. Especially in immunochemical assays, it enables the development of a highly sensitive detection system.

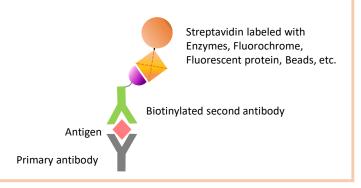
Easy immobilization on solid phases

Use for coating of solid phases such as microplates, beads, microarrays and so on.



Universal detection system by labeling

Use in universal immunological detection systems due to the strong affinity between streptavidin labeled with enzymes or fluorescent substrates and biotinylated proteins or antibodies.



OYC IVD News Vol.3 - Streptavidin for Immunoassay -

PRODUCT INFORMATION

rStreptavidin

Туре	Core
Product Item	rSA-C
Source	Streptomyces avidinii
Molecular Weight ^{*1}	13 kDa
Specific Activity*2	≧ 17 Units/mg
Product Form	Lyophilized powder
Storage Condition	Below -20°C

^{*1} SDS-PAGE

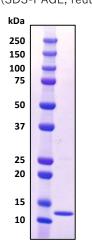
- Highly purified recombinant protein expressed by *E. coli*.
- High quality product with minimized lot-to-lot variation.
- Capable of large-scale production in bulk quantities.
- Available in core and full-length of streptavidin to match customer's application.

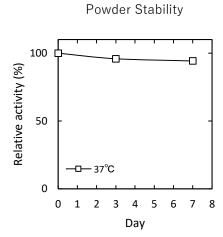
Note: These products are just developed at our R&D Lab so that the specifications may be changed in future. Please contact us for the detailed product information.

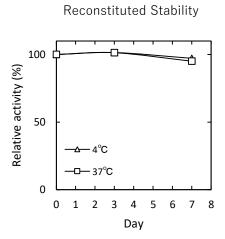
REFFERENCE DATA

rSA-C









RELATED PRODUCTS

Label enzymes suitable for use with Streptavidin

ALP5000 (ALP-H) from Calf intestine

Product Item	Catalog No.	
ALP5000	47785955	
ALP2500 (ALP-L)	from Calf intestine	

ALP2500 (ALP-L) from Calf intestine		
Product Item	Catalog No.	
ALP2500	47825924	

• Specific activity: > 5000 U/mg protein

• Purity(HPLC) : \geq 97%

Specific activity: > 2500 U/mg protein

• Purity(HPLC) : $\geq 97\%$

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



Please contact our sales representative or visit the following website.

^{*2} One unit will bind 1.0 μg biotin

Products & Services

Biochemicals





Application	Product Item (Enzymes)	(Coeznymes / Substrates)
ALT/AST	rLDH, rD-LDH, rMDH	NADH
AMY	rα-Glucosidase	-
Ammonia	rGIDH, rLDH, rD-LDH	NADH, NADPH
Bicarbonate	rMDH	APADH, NADH / PEP
BUN/UUN	rGIDH, rICDH, rUrease	NADPH
Cholinesterase	rpHBH, rPCO	NADPH
Creatine Kinase	rG6PDH, rHK, r6PGL	NADP / ADP, AMP, AP5A, CP
Creatine Kinase-MB	rG6PDH, rHK, r6PGL, r6PGDH	NADP / ADP, AMP, AP5A, CP
Glucose	rG6PDH, rHK	NAD, NADP / ATP
Total Bile Acid	r3α-HSDH	Thio-NAD
Triglyceride	rGK, rGPO, POD	ATP
Uric Acid	POD, rUricase	-

Immunologicals



Application	Product Item (Antigens)	(Antibodies)
Beta-2-Microglobuliin	rB2M	B2M-IgG (rabbit polyclonal)
CK	rCK-MM, rCK-MB	CK-MM-MCA (mouse monoclonal)
CRP	rCRP	CRP-IgG (rabbit polyclonal)
CRP	ICRP	CRP-MCA (mouse monoclonal)
Cystatine-C	rCys-C	Cystatin-C-IgG (rabbit polyclonal)
Myoglobin	rMb	-
Application	Product Item (Enzymes)	(Protein)
Labeling & Detection	ALP, scavenger-ALP, POD	rStreptavidin

Calibrators/Controls



Application	Product Item (Calibrator/Control)
HDL/LDL Cholesterol	HDL/LDL-OY Calibrator (1 mL)
Human Enzymes	rALT, rAST, rALP, rLDH, rS-AMY, rP-AMY, rCK-MM, rCK-MB, rGGT, rLIP
Hullian Enzymes	Calibrators / Controls
Linearity Control	Accustabilis Chem High (Custom)
Multiple Control	Accustabilis Chem 1, Accustabilis Chem 2 (Custom)
CRP	CRP Calibrator Set
CNP	CRP Control-H/L
Cystatine-C	Cys-C Calibrator Set
Cystatine-C	Cys-C Control-H/L
Immunology Control	Accustabilis Immun 1/2 (Custom)

OEM Reagent Kits



Application	Product Item (OEM Reagent)
Creatinine	CRE-S R1/R2
CRP	CRP-OY R1/R2
Cys-C	Cys-C-OY R1/R2
HDL Cholesterol	HDL-OY R1/R2
LDL Cholesterol	LDL-OY R1/R2

Custom Services





Custom production of recombinant proteins and antibodies.

Introducing details of our products and services from the next vol.



Please contact our sales representative or visit the following website.