

Enzymes
Coenzymes
Substrates

Biochemicals for Diagnostics
2023-2024

Proteins
Antibodies
Controls



Contents

Raw Materials for Reagents

ALP	Alkaline Phosphatase; ALK PHOS; Alkp	4
rhALP, Accustabilis Chem High, Accustabilis Chem 1, Accustabilis Chem 2		
ALT	Alanine Aminotransferase; Serum Glutamic-Pyruvic Transaminase; SGPT; GPT; Alanine Transaminase	5
β -NADH, Pyridoxamine phosphate, rLDH(CH), rLDH(PH), rLDH(RM), rD-LDH(Bacteria), rD-LDH(L), rhALT, Accustabilis Chem High, Accustabilis Chem 1, Accustabilis Chem 2		
Ammonia	Ammonia Plasma; NH_3	6
β -NADH, β -NADPH, rGIDH(NAD), rGIDH(NADP), rGIDH(Y), rLDH(CH), rLDH(PH), rLDH(RM), rD-LDH(Bacteria), rD-LDH(L)		
AST	Aspartate Aminotransferase; Serum Glutamic-Oxaloacetic Transaminase; SGOT; GOT; Aspartate Transaminase	7
β -NADH, Pyridoxamine phosphate, rLDH(CH), rLDH(PH), rLDH(RM), rD-LDH(Bacteria), rD-LDH(L), rMDH, rhAST, Accustabilis Chem High, Accustabilis Chem 1, Accustabilis Chem 2		
Bicarbonate	Total CO_2 ; TCO_2 ; Carbon Dioxide Content; CO_2 Content; Bicarb; HCO_3^-	8
β -NADH, PEP, rMDH		
BUN	Blood Urea Nitrogen; Urea Nitrogen; Urea	9
β -NADH, β -NADPH, rGIDH(NAD), rGIDH(NADP), rGIDH(Y), rUrease, Accustabilis Chem 1, Accustabilis Chem 2		
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β -NADPH, rGIDH(NADP), rICDH(Taq), rUrease, D-Isocitrate-K, Accustabilis Chem 1, Accustabilis Chem 2		
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β -NADPH, rPBH, rPCO		
Creatine Kinase	CK; Total CK; Creatine Phosphokinase; CPK	13
β -NADP $^+$, β -NADP $^{+}$ -K, β -NADP $^{+}$ -Na $_2$, ADP, ADP-K, AMP-Na, APSA-3Li, CP, rG-6-PDH(L)-43, rG-6-PDH(L)-93, rHK(Y), r6-PGL(L), rhCK-MB, rhCK-MM, Accustabilis Chem High, Accustabilis Chem 1, Accustabilis Chem 2		
Creatine Kinase-MB	CK MB; CPK MB	14
β -NADP $^+$, β -NADP $^{+}$ -K, β -NADP $^{+}$ -Na $_2$, ADP, ADP-K, AMP-Na, APSA-3Li, CP, rG-6-PDH(L)-43, rG-6-PDH(L)-93, rHK(Y), r6-PGL(L), r6-PGDH(Y), CK-MM-MCAmL(MX1)-12, CK-MM-MCAmL(MX1)-12S, rhCK-MB, rhCK-MM, Accustabilis Chem High, Accustabilis Chem 1, Accustabilis Chem 2		
GGT	Gamma-Glutamyl Transferase; Gamma-Glutamyl Transpeptidase; GGTP; Gamma-GT; GTP	15
rhyGT, Accustabilis Chem High, Accustabilis Chem 1, Accustabilis Chem 2		
Glucose	Blood Glucose; Urine Glucose; Blood Sugar; Fasting Blood Sugar; FBS; Fasting Blood Glucose; FBG; Fasting Plasma Glucose; FPG; Blood Glucose; Oral Glucose Tolerance Test; OGT; GTT; Urine Glucose	16
β -NAD $^+$, β -NADP $^+$, ATP-II, rG-6-PDH(L)-43, rG-6-PDH(L)-93, rHK(Y), Accustabilis Chem 1, Accustabilis Chem 2		
NEFA	Non-Esterified Fatty Acid	17
CoA, CoA-Li, ATP-II, POD		
TBA	Total Bile Acids; Bile Acids	18
β -NADH, Thio-NAD $^+$, r3 α -HSDH		



Raw Materials for Reagents

Triglycerides

TG; TRIG

19

ATP-II, POD, rGK, rGPO, Accustabilis Chem 1, Accustabilis Chem 2

Uric Acid

Serum Urate; UA

20

POD, rUricase[Y], rUricase-03, rUricase-73, Accustabilis Chem 1, Accustabilis Chem 2

OEM reagents

Creatinine

Creat; Blood Creatinine; Serum Creatinine; Urine Creatinine

21

CRE-S R1, CRE-S R2, Accustabilis Chem 1, Accustabilis Chem 2

CRP

C-Reactive Protein

22

CRP-OY R1, CRP-OY R2, CRP Calibrator Set, CRP Control-L, CRP Control-H

Cys-C

Cystatin C

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Cys-C-OY R-1, Cys-C-OY R-2, Cys-C Calibrator Set, Cys-C Control-L, Cys-C Control-H

HDL Cholesterol

HDL; HDL-C; High Density Lipoprotein Cholesterol

24

HDL-OY R1, HDL-OY R2, HDL/LDL-OY Calibrator (1mL)

LDL Cholesterol

LDL; LDL-C; Low Density Lipoprotein Cholesterol

25

LDL-OY R1, LDL-OY R2, HDL/LDL-OY Calibrator (1mL)

Control Serum

Linearity Control

Accustabilis Chem High

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Multiple Control

Accustabilis Chem 1, Accustabilis Chem 2

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Immunology Control

Accustabilis Immun 1/2

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Abbreviations

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ALP

Alkaline Phosphatase; ALK PHOS; Alkp

Assay Principle



Major ingredients in the reagent are colored **red**.
OYC's available product is highlighted in **yellow**.

Product List

Application	Product Item	Catalog No.	Pack Size	Remarks
Control/Calibrator	rhALP	46884903	Bulk	
Linearity Check	Accustabilis Chem High	47042900	Set	
Multiple Control	Accustabilis Chem 1	47582900	Set	Shipped with Dry Ice
	Accustabilis Chem 2	47583900	Set	Shipped with Dry Ice



ALT

Alanine Aminotransferase; Serum Glutamic-Pyruvic Transaminase; SGPT; GPT; Alanine Transaminase

Assay Principle



Major ingredients in the reagent are colored **red**.
OYC's available product is highlighted in **yellow**.

Product List

Application	Product Item	Catalog No.	Pack Size	Remarks
Raw Materials	β-NADH	44320900	Bulk	
	Pyridoxamine phosphate	44600900	Bulk	
	rLDH(CH)	46757903	Bulk	
	rLDH(PH)	46862903	Bulk	
	rLDH(RM)	46764903	Bulk	
	rD-LDH(Bacteria)	46762903	Bulk	
	rD-LDH(L)	46867903	Bulk	
Control/Calibrator	rhALT	46896903	Bulk	
Linearity Check	Accustabilis Chem High	47042900	Set	
Multiple Control	Accustabilis Chem 1	47582900	Set	Shipped with Dry Ice
	Accustabilis Chem 2	47583900	Set	Shipped with Dry Ice



Ammonia

Ammonia Plasma; NH₃

Assay Principle - NADPH Used System



Major ingredients in the reagent are colored **red**.
OYC's available product is highlighted in **yellow**.

Product List

Application	Product Item	Catalog No.	Pack Size	Remarks
Raw Materials	β-NADPH	44332900	Bulk	
	rGIDH(NADP)	46764904	Bulk	
	rGIDH(Y)	46747903	Bulk	

Assay Principle - NADH Used System



*1 : The reagent contains **LDH** in excess,
to rapidly reduce endogenous pyruvate so that it does not interfere with the assay system.

Major ingredients in the reagent are colored **red**.
OYC's available product is highlighted in **yellow**.

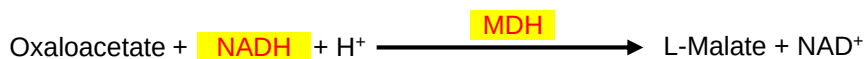
Product List

Application	Product Item	Catalog No.	Pack Size	Remarks
Raw Materials	β-NADH	44320900	Bulk	
	rGIDH(NAD)	46874903	Bulk	
	rLDH(CH)	46757903	Bulk	
	rLDH(PH)	46862903	Bulk	
	rLDH(RM)	46764903	Bulk	
	rD-LDH(Bacteria)	46762903	Bulk	
	rD-LDH(L)	46867903	Bulk	

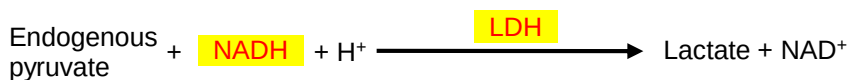


Assay Principle

Main Reaction



Elimination of pyruvate interference



Major ingredients in the reagent are colored **red**.
OYC's available product is highlighted in **yellow**.

Product List

Application	Product Item	Catalog No.	Pack Size	Remarks
Raw Materials	β-NADH	44320900	Bulk	
	Pyridoxamine phosphate	44600900	Bulk	
	rLDH(CH)	46757903	Bulk	
	rLDH(PH)	46862903	Bulk	
	rLDH(RM)	46764900	Bulk	
	rD-LDH(Bacteria)	46762903	Bulk	
	rD-LDH(L)	46867903	Bulk	
	rMDH	46756903	Bulk	
Control/Calibrator	rhAST	46887903	Bulk	
Linearity Check	Accustabilis Chem High	47042900	Set	
Multiple Control	Accustabilis Chem 1	47582900	Set	Shipped with Dry Ice
	Accustabilis Chem 2	47583900	Set	Shipped with Dry Ice



Bicarbonate

Total CO₂; TCO₂; Carbon Dioxide Content; CO₂ Content; Bicarb; HCO₃⁻

Assay Principle



Major ingredients in the reagent are colored **red**.
OYC's available product is highlighted in **yellow**.

Product List

Application	Product Item	Catalog No.	Pack Size	Remarks
Raw Materials	β-NADH	44320900	Bulk	
	PEP	45170900	Bulk	
	rMDH	46756903	Bulk	



BUN

Blood Urea Nitrogen; Urea Nitrogen; Urea

Assay Principle - NADPH Used System

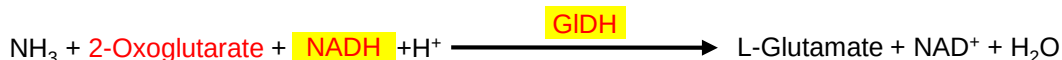
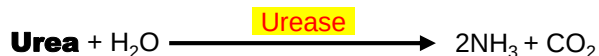


Major ingredients in the reagent are colored **red**.
OYC's available product is highlighted in **yellow**.

Product List

Application	Product Item	Catalog No.	Pack Size	Remarks
Raw Materials	β-NADPH	44332900	Bulk	
	rGIDH(NADP)	46764904	Bulk	
	rGIDH(Y)	46747903	Bulk	
	rUrease	46753900	Bulk	
Multiple Control	Accustabilis Chem 1	47582900	Set	Shipped with Dry Ice
	Accustabilis Chem 2	47583900	Set	Shipped with Dry Ice

Assay Principle - NADH Used System



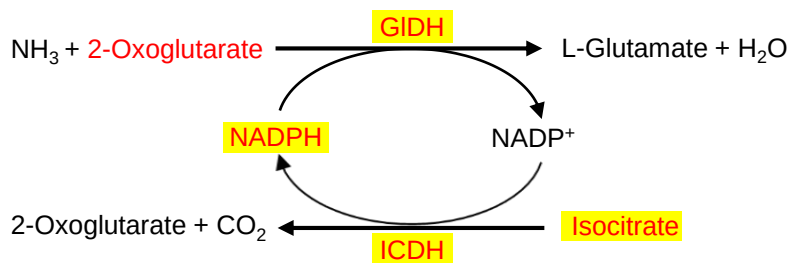
Major ingredients in the reagent are colored **red**.
OYC's available product is highlighted in **yellow**.

Product List

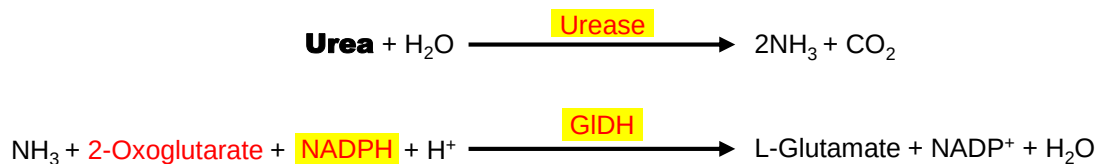
Application	Product Item	Catalog No.	Pack Size	Remarks
Raw Materials	β-NADH	44320900	Bulk	
	rGIDH(NAD)	46874903	Bulk	
	rUrease	46753900	Bulk	
Multiple Control	Accustabilis Chem 1	47582900	Set	Shipped with Dry Ice
	Accustabilis Chem 2	47583900	Set	Shipped with Dry Ice

Assay Principle - Ammonia Elimination Assay

1st Reaction (Ammonia Elimination)



2nd Reaction (Urea Nitrogen Measurement)



Major ingredients in the reagent are colored **red**.
OYC's available product is highlighted in **yellow**.

Product List

Application	Product Item	Catalog No.	Pack Size	Remarks
Raw Materials	β -NADPH	44332900	Bulk	
	rGIDH(NADP)	46764904	Bulk	
	rICDH(Taq)	46745903	Bulk	
	rUrease	46753900	Bulk	
	D-Isocitrate-K	45205900	Bulk	
Multiple Control	Accustabilis Chem 1	47582900	Set	Shipped with Dry Ice
	Accustabilis Chem 2	47583900	Set	Shipped with Dry Ice

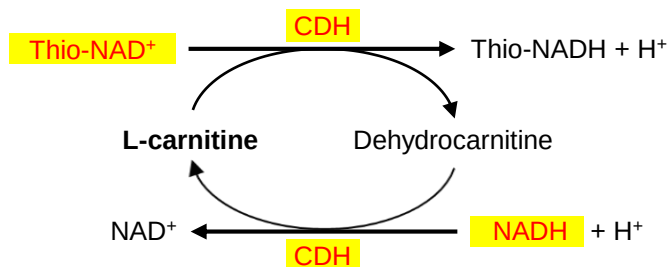
Carnitine

Assay Principle - Enzyme Cycling Method

Total carnitine reaction



Total carnitine / Free carnitine common reaction



Acylcarnitine concentration

$$= \text{Total carnitine concentration} - \text{Free carnitine concentration}$$

Major ingredients in the reagent are colored **red**.
OYC's available product is highlighted in **yellow**.

Product List

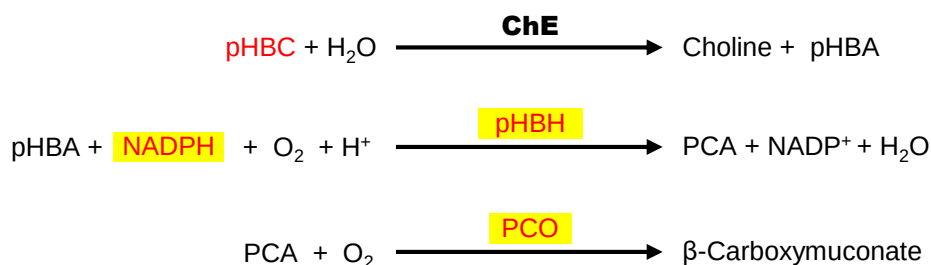
Application	Product Item	Catalog No.	Pack Size	Remarks
Raw Materials	β-NADH	44320900	Bulk	
	Thio-NAD ⁺	44104900	Bulk	
	rACE	46903903	Bulk	
	rCDH	46904903	Bulk	



Cholinesterase

CHS; AChE; RBC Cholinesterase; Red Cell Cholinesterase; BChE; Plasma Cholinesterase; Pseudocholinesterase; PCHE; Erythrocyte Acetylcholinesterase; Butyrylcholinesterase

Assay Principle



Major ingredients in the reagent are colored **red**.
OYC's available product is highlighted in **yellow**.

Product List

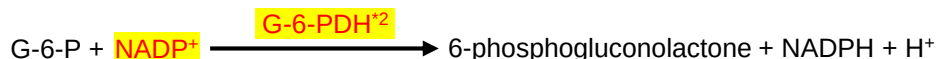
Application	Product Item	Catalog No.	Pack Size	Remarks
Raw Materials	β-NADPH	44332900	Bulk	
	rpHBH	46853903	Bulk	
	rPCO	46852904	Bulk	



Creatine Kinase

CK; Total CK; Creatine Phosphokinase; CPK

Assay Principle



*1 AK activity is inhibited by AP5A and AMP in advance.

*2 Stabilizing CK linearity by adding 6-PGL.

Major ingredients in the reagent are colored red.
OYC's available product is highlighted in yellow.

Product List

Application	Product Item	Catalog No.	Pack Size	Remarks
Raw Materials	β-NADP ⁺	44292900	Bulk	
	β-NADP ⁺ -K	44310900	Bulk	
	β-NADP ⁺ -Na ₂	44300900	Bulk	
	ADP	45120900	Bulk	
	ADP-K	45130900	Bulk	
	AMP-Na	45110900	Bulk	
	AP5A-3Li	45305000	Bulk	
	CP	45180900	Bulk	
	rG-6-PDH(L)-43	46854903	Bulk	
	rG-6-PDH(L)-93	46860903	Bulk	
Control/Calibrator	rHK(Y)	46763900	Bulk	
	r6-PGL(L)	46765900	Bulk	
	rhCK-MB	47014905	Bulk	Shipped with Dry Ice
Linearity Check	rhCK-MM	47013905	Bulk	Shipped with Dry Ice
	Accustabilis Chem High	47042900	Set	
Multiple Control	Accustabilis Chem 1	47582900	Set	Shipped with Dry Ice
	Accustabilis Chem 2	47583900	Set	Shipped with Dry Ice

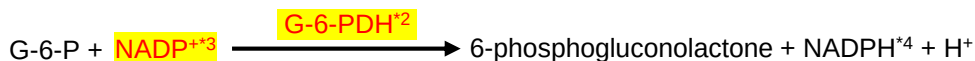


Creatine Kinase-MB

CK MB; CPK MB

Assay Principle

Reagent contains **CK-MM Antibody** to inhibit activity of CK-M subunit.



*1 AK activity is inhibited by **AP5A** and **AMP** in advance.

*2 Stabilizing CK linearity by adding **6-PGL**.

*3 CK-MB isoenzyme can be calculated from the measured CK-B activity by multiplying the result by 2.

*4 **6-PGDH** can be added to amplify absorbance sensitivity.

Major ingredients in the reagent are colored **red**.
OYC's available product is highlighted in **yellow**.

Product List

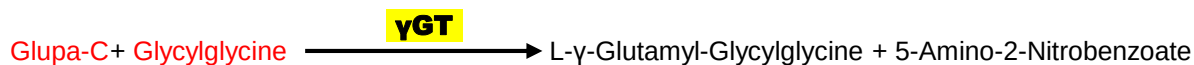
Application	Product Item	Catalog No.	Pack Size	Remarks
Raw Materials	β -NADP ⁺	44292900	Bulk	
	β -NADP ⁺ -K	44310900	Bulk	
	β -NADP ⁺ -Na ₂	44300900	Bulk	
	ADP	45120900	Bulk	
	ADP-K	45130900	Bulk	
	AMP-Na	45110900	Bulk	
	AP5A-3Li	45305000	Bulk	
	CP	45180900	Bulk	
	rG-6-PDH(L)-43	46854903	Bulk	
	rG-6-PDH(L)-93	46860903	Bulk	
	rHK(Y)	46763900	Bulk	
	r6-PGL(L)	46765900	Bulk	
	r6-PGDH(Y)	46861903	Bulk	
	CK-MM-MCAmL(MX1)-12	47099900	Bulk	
	CK-MM-MCAmL(MX1)-12S	47097900	Bulk	
Control/Calibrator	rhCK-MB	47014905	Bulk	Shipped with Dry Ice
	rhCK-MM	47013905	Bulk	Shipped with Dry Ice
Linearity Check	Accustabilis Chem High	47042900	Set	
Multiple Control	Accustabilis Chem 1	47582900	Set	Shipped with Dry Ice
	Accustabilis Chem 2	47583900	Set	Shipped with Dry Ice



GGT

Gamma-Glutamyl Transferase; Gamma-Glutamyl Transpeptidase; GGTP; Gamma-GT; GTP

Assay Principle



Major ingredients in the reagent are colored **red**.
OYC's available product is highlighted in **yellow**.

Product List

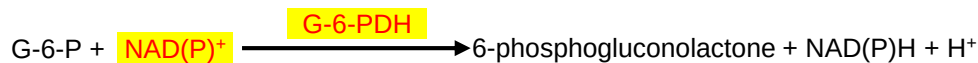
Application	Product Item	Catalog No.	Pack Size	Remarks
Control/Calibrator	rhyGT	46893903	Bulk	
Linearity Check	Accustabilis Chem High	47042900	Set	
Multiple Control	Accustabilis Chem 1	47582900	Set	Shipped with Dry Ice
	Accustabilis Chem 2	47583900	Set	Shipped with Dry Ice



Glucose

Blood Glucose; Urine Glucose; Blood Sugar; Fasting Blood Sugar; FBS; Fasting Blood Glucose; FBG; Fasting Plasma Glucose; FPG; Blood Glucose; Oral Glucose Tolerance Test; OGTT; GTT; Urine Glucose

Assay Principle – HK Method



Major ingredients in the reagent are colored **red**.
OYC's available product is highlighted in **yellow**.

Product List

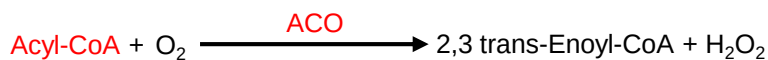
Application	Product Item	Catalog No.	Pack Size	Remarks
Raw Materials	β-NAD ⁺	44065900	Bulk	
	β-NADP ⁺	44292900	Bulk	
	ATP-II	45147900	Bulk	
	rG-6-PDH(L)-43	46854903	Bulk	
	rG-6-PDH(L)-93	46860903	Bulk	
	rHK(Y)	46763903	Bulk	
Multiple Control	Accustabilis Chem 1	47582900	Set	Shipped with Dry Ice
	Accustabilis Chem 2	47583900	Set	Shipped with Dry Ice



NEFA

Non-Esterified Fatty Acid

Assay Principle



Major ingredients in the reagent are colored **red**.
OYC's available product is highlighted in **yellow**.

Product List

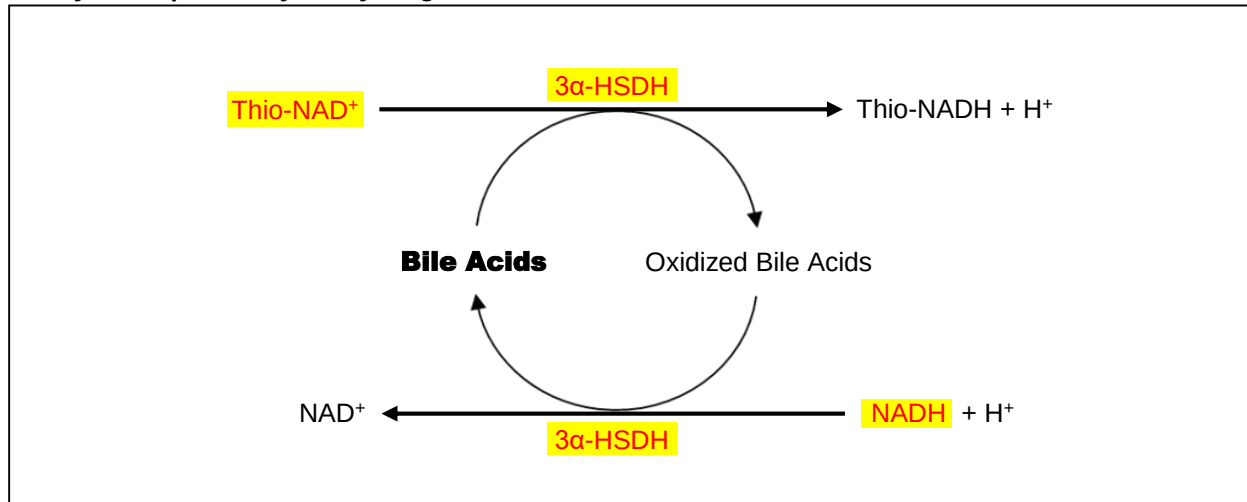
Application	Product Item	Catalog No.	Pack Size	Remarks
Raw Materials	CoA	45152900	Bulk	
	CoA-Li	45162900	Bulk	
	ATP-II	45147900	Bulk	
	POD	46260903	Bulk	From Horse Radish



TBA

Total Bile Acids ; Bile Acids

Assay Principle - Enzyme Cycling Method



Major ingredients in the reagent are colored **red**.
OYC's available product is highlighted in **yellow**.

Product List

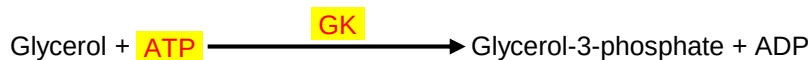
Application	Product Item	Catalog No.	Pack Size	Remarks
Raw Materials	β-NADH	44320900	Bulk	
	Thio-NAD ⁺	44104900	Bulk	
	r3α-HSDH	46106903	Bulk	



Triglycerides

TG; TRIG

Assay Principle



Major ingredients in the reagent are colored **red**.
OYC's available product is highlighted in **yellow**.

Product List

Application	Product Item	Catalog No.	Pack Size	Remarks
Raw Materials	ATP-II	45147900	Bulk	
	POD	46260903	Bulk	From Horse Radish
	rGK	46898903	Bulk	
	rGPO	Coming soon	Bulk	
Multiple Control	Accustabilis Chem 1	47582900	Set	Shipped with Dry Ice
	Accustabilis Chem 2	47583900	Set	Shipped with Dry Ice



Uric Acid

Serum Urate; UA

Assay Principle



Major ingredients in the reagent are colored **red**.
OYC's available product is highlighted in **yellow**.

Product List

Application	Product Item	Catalog No.	Pack Size	Remarks
Raw Materials	POD	46260903	Bulk	From Horse Radish
	rUricase(Y)	46767900	Bulk	
	rUricase-03	46785903	Bulk	
	rUricase-73	46786903	Bulk	
Multiple Control	Accustabilis Chem 1	47582900	Set	Shipped with Dry Ice
	Accustabilis Chem 2	47583900	Set	Shipped with Dry Ice



Creatinine

Creat; Blood Creatinine; Serum Creatinine; Urine Creatinine

Assay Principle

Enzymatic

Product List

Application	Product Item	Catalog No.	Pack Size	Remarks
Reagents	CRE-S R1	49500900	L	
	CRE-S R2	49510900	L	
Multiple Control	Accustabilis Chem 1	47582900	Set	Shipped with Dry Ice
	Accustabilis Chem 2	47583900	Set	Shipped with Dry Ice



CRP

C-Reactive Protein

Assay Principle

Latex Agglutination Reaction

Product List

Application	Product Item	Catalog No.	Pack Size	Remarks
Reagents	CRP-OY R1	49290900	L	
	CRP-OY R2	49291900	L	
Calibrator	CRP Calibrator Set	47534900	Set	
Control	CRP Control-L	47512900	mL	
	CRP Control-H	47513900	mL	

Reference

Application	Product Item	Catalog No.	Pack Size	Remarks
Raw material	rCRP	47190900	mg	
	O-RB-CRP-IGG-BT35	47872900	mL	
	O-CRP-MCA(12D-2C)	47858900	mg	
	O-CRP Free Serum	47936900	mL	



Assay Principle

Latex Agglutination Reaction

Product List

Application	Product Item	Catalog No.	Pack Size	Remarks
Reagents	Cys-C-OY R-1	49364900	L	
	Cys-C-OY R-2	49365900	L	
Calibrator	Cys-C Calibrator Set	49366900	Set	
Control	Cys-C Control-L	47510900	mL	
	Cys-C Control-H	47511900	mL	

Reference

Application	Product Item	Catalog No.	Pack Size	Remarks
Raw material	rCys-C	47516900	mg	
	RB-rCystatin C-IgG	47880900	mL	



HDL Cholesterol

HDL; HDL-C; High Density Lipoprotein Cholesterol

Assay Principle

Direct Method

Product List

Application	Product Item	Catalog No.	Pack Size	Remarks
Reagents	HDL-OY R1	49174900	L	
	HDL-OY R2	49175900	L	
Calibrator	HDL/LDL-OY Calibrator (1 mL)	49190900	Vial	



LDL Cholesterol

LDL; LDL-C; Low Density Lipoprotein Cholesterol

Assay Principle

Direct Method

Product List

Application	Product Item	Catalog No.	Pack Size	Remarks
Reagents	LDL-OY R1	49179900	L	
	LDL-OY R2	49185900	L	
Calibrator	HDL/LDL-OY Calibrator (1 mL)	49190900	Vial	



Linearity Control

Product List

Product Item	Catalog No.	Pack Size	Remarks
Accustabilis Chem High	47042900	Bulk	MOQ : 5 L

Application of Use

This makes it possible to check linearity performance of chemistry reagents.

Features

- Approx. 10 times more spiking enzymes parameters are in delipidated human serum than Accustabilis Chem 2.
- Certified enzyme value for each lot is described in Certificate of Analysis.
- Certified enzyme value is traceable to international reference materials.
- Custom bulk packing is available on request.

Appearance

Lyophilized

Storage Conditions

-20°C for long term (2-8 °C for Shipping)

Parameters

Sr.	Item		Spiked Enzymes	Unit	Accustabilis Chem High
1	AST	Aspartate Transaminase	AST from Pig Heart	IU/L	1,170-1,430
2	ALT	Alanine Transaminase	ALT from Pig Heart	IU/L	1,170-1,430
3	ALP	Alkaline Phosphatase	ALP from Calf Intestine	IU/L	2,340-2,860
4	LDH	Lactate Dehydrogenase	LDH from Chicken Heart	IU/L	2,970-3,630
5	AMY	α-Amylase	AMY from Pig Pancreas	IU/L	4,095-5,005
6	CK	Creatine Kinase	CK from Pig Heart	IU/L	4,095-5,005
7	γ-GT	γ-Glutamyl Transferase	γ-GT from Bovine Kidney	IU/L	2,340-2,860

Recommended Reconstitution

1. Stand lyophilized vial for minutes at ambient temperature to equilibrium.
2. Add exact 3 mL of purified water accordingly to one vial.
3. Leave it for 15-30 minutes to have it dissolved completely. Incubating at 4 °C overnight is preferred.
4. Mix gentry with repeated upside and down.

Caution

- Once reconstituted, it should be kept at refrigeration with tightly capped.
- Avoid repeated freeze and thawing.
- Do not use it once it becomes cloudy unusually.
- This product is not applicable for long time storage after reconstituted.

Multiple Control

Product List

Product Item	Catalog No.	Pack Size	Remarks
Accustabilis Chem 1	47582900	Bulk	Shipped with Dry Ice MOQ : 5 L
Accustabilis Chem 2	47583900	Bulk	Shipped with Dry Ice MOQ : 5 L

Application of Use

Accuracy and specificity check to measure value of unknown patient samples within run and between run to run.

Features

- Multiplex with reference values. 25 parameters in total.
- Ready to use, eliminating reconstitution errors.
- Superior to transparency.
- Human pooled serum matrix, presenting two different levels; low and high.
- Custom bulk packing is available on request.

Appearance

Liquid frozen

Lyophilized (Custom Made)

Storage Conditions

-20°C for Long Term

Parameters Regulated

Sr.	item	Unit	Accustabilis Chem 1	Accustabilis Chem 2	Reference Methodology
1	TP Total Protein	g/dL	4.5-6.0	7.9-9.0	Biuret
2	ALB Albumin	g/dL	2.5-4.0	4.0-5.5	BCG ^{†1}
3	BUN Blood Urea Nitrogen	mg/dL	10-15	35-50	Enzymatic
4	UA Uric Acid	mg/dL	3.0-5.0	8.0-11	Enzymatic
5	CRE Creatinine	mg/dL	0.8-1.6	3.0-6.0	Enzymatic
6	Na Sodium	mEq/L	135-148	152-162	ISE ^{†2}
7	K Potassium	mEq/L	3.5-5.0	5.0-7.0	ISE ^{†2}
8	Cl Chloride	mEq/L	90-105	110-120	ISE ^{†2}
9	Ca Calcium	mg/dL	6.0-9.0	9.5-12.5	OCPC ^{†3}
10	Mg Magnesium	mg/dL	2.0-3.0	4.0-6.0	Xylidyl blue
11	IP Inorganic Phosphorus	mg/dL	3.0-5.5	6.0-10.0	Enzymatic
12	Fe Iron	µg/dL	80-120	180-250	Nitroso-PSAP ^{†4}
13	AST Aspartate Transaminase	IU/L	30-50	100-150	JSCC
14	ALT Alanine Transaminase	IU/L	30-50	100-150	JSCC
15	ALP Alkaline Phosphatase	IU/L	170-230	440-560	JSCC
16	LDH Lactate Dehydrogenase	IU/L	90-160	300-400	JSCC
17	AMY α-Amylase	IU/L	80-120	350-450	Gal-G5-4NP ^{†5}
18	CK Creatine Kinase	IU/L	80-130	400-550	JSCC ^{†6}
19	γ-GT γ-Glutamyl Transferase	IU/L	30-50	100-150	IFCC ^{†7}
20	TC Total Cholesterol	mg/dL	90-130	220-280	Enzymatic
21	TG Triglyceride	mg/dL	70-120	150-200	Enzymatic
23	T-BIL Total Bilirubin	mg/dL	0.3-0.8	3.0-4.5	Enzymatic
24	GLU Glucose	mg/dL	80-120	200-250	Enzymatic
25	CRP C-Reactive Protein	mg/dL	Inquiry	Inquiry	Enzymatic

^{†1} : Bromocresol Green, ^{†2} : Ion Selective Electrodes, ^{†3} : o-Cresolphthalein Complexone,

^{†4} : 2-Nitroso-5-(N-propyl-N-sulfo-propylamino)phenol, ^{†5} : β-D-Galactosyl-4-Nitrophenyl α-Maltopentaoside

^{†6} : Japan Society of Clinical Chemistry, ^{†7} : International Federation of Clinical Chemistry and Laboratory Medicine

Caution

- Do not use it once it becomes cloudy unusually.
- This product is not applicable for long time storage after thawing.



Immunology Control

Product List

Product Item	Catalog No.	Pack Size	Remarks
Accustabilis Immun 1/2	47043900	Bulk	MOQ : 5 L

Application of Use

Accuracy and specificity check to measure value of unknown patient samples within run and between run to run.

Features

- Multiplex with 8 reference values (IgG,IgA,IgM,C3,C4,RF,ASO,CRP).
- Ready to use, eliminating reconstitution errors.
- Superior to transparency.
- Human pooled serum matrix, presenting two different levels, low and high.
- Custom bulk packing is available on request.

Appearance

Liquid Stable

Storage Conditions

2-8 °C

Parameters

Sr.	Item	Unit	Accustabilis Immun 1	Accustabilis Immun 2	Reference Methodology
1	IgG Immunoglobulin G	mg/dL	700-1,050	1,700-2,450	TIA [†]
2	IgA Immunoglobulin A	mg/dL	150-240	360-500	TIA [†]
3	IgM Immunoglobulin M	mg/dL	60-90	150-210	TIA [†]
4	C3 Complement 3	mg/dL	95-135	210-280	TIA [†]
5	C4 Complement 4	mg/dL	10-25	30-60	TIA [†]
6	CRP C-Reactive Protein	mg/dL	0.5-1.0	3.5-5.0	Latex Agglutination
7	RF Rheumatoid Factor	IU/mL	15-35	85-115	Latex Agglutination
8	ASO Anti-Streptolysin O	IU/mL	70-100	180-240	Latex Agglutination

[†] : Turbidimetric Immunoassay

Caution

- Do not freeze.
- Do not use it once it becomes cloudy unusually.



Abbreviations

Abbreviations in Assay Principle

2,3 trans-Enoyl-CoA	2,3 trans-Enoyl-Coenzyme A
3 α -HSDH	3 α -Hydroxysteroid Dehydrogenase
4-AAP	4-Aminoantipyrine
6-PGL	6-Phosphogluconolactonase
6-PGDH	6-Phosphogluconate Dehydrogenase
ACE	Acylcarnitine Esterase
ACO	Acyl Coenzyme A Oxidase
ACS	Acyl Coenzyme A Synthetase
Acyl-CoA	Acyl Coenzyme A
ADP	Adenosine 5'-Diphosphate
AK	Adenylate Kinase
ALP	Alkaline Phosphatase
ALT	Alanine Aminotransferase
AMP	Adenosine 5'-Monophosphate
AP5A	Diadenosine Pentaphosphate
AST	Aspartate Aminotransferase
ATP	Adenosine 5'-Triphosphate
CDH	Carnitine 3-Dehydrogenase
ChE	Cholinesterase
CK	Creatine Kinase
CK-MB	Creatine Kinase-MB
CK-MM	Creatine Kinase-MM
CoA	Coenzyme A
CP	Creatine Phosphate
CRP	C-Reactive Protein
Cys-C	Cystatin C
G-6-P	Glucose-6-Phosphate
G-6-PDH	Glucose-6-Phosphate Dehydrogenase
GK	Glycerol Kinase
GIDH	Glutamate Dehydrogenase
Glupa-C	L- γ -Glutamyl-3-Carboxy-4-Nitroanilide
GPO	Glycerol 3-Phosphate Oxidase
HDL	High Density Lipoprotein
HK	Hexokinase
ICDH	Isocitrate Dehydrogenase
LDH	Lactate Dehydrogenase
LDL	Low Density Lipoprotein
MDH	Malate Dehydrogenase
NAD ⁺	Nicotinamide Adenine Dinucleotide, Oxidized Form
NADH	Nicotinamide Adenine Dinucleotide, Reduced Form
NADP ⁺	Nicotinamide Adenine Dinucleotide Phosphate, Oxidized Form
NADPH	Nicotinamide Adenine Dinucleotide Phosphate, Reduced Form
PCA	Protocatechuate
PCO	Protocatechuate 3,4-Dioxygenase
PEP	Phosphoenolpyruvate
PEPC	Phosphoenolpyruvate Carboxylase
pHBA	p-Hydroxybenzoate
pHBC	p-Hydroxybenzoylcholine
pHBH	p-Hydroxybenzoate Hydroxylase



Abbreviations

Abbreviations in Assay Principle

pNP	p-Nitrophenol
pNPP	p-Nitrophenylphosphate
POD	Peroxidase
Thio-NAD ⁺	Thionicotinamide Adenine Dinucleotide
γGT	γ-Glutamyltransferase



Abbreviations

Abbreviations in Product List

ADP	Adenosine 5'-Diphosphate, Disodium Salt
ADP-K	Adenosine 5'-Diphosphate, Monopotassium Salt
ALP	Alkaline Phosphatase
AMP-Na	Adenosine 5'-Monophosphate, Disodium Salt
AP5A-3Li	Diadenosine Pentaphosphate, Trilithium Salt
ATP-II	Adenosine 5'-Triphosphate, Disodium Salt
CoA	Coenzyme A, Free Acid from Yeast
CoA-Li	Coenzyme A Trilithium Salt from Yeast
CP	Creatine Phosphate, Disodium Salt
D-Isocitrate-K	D-Isocitrate, Monopotassium Salt
PEP	Phosphoenolpyruvate
POD	Peroxidase from Horseradish Roots
r3 α -HSDH	recombinant 3 α -Hydroxysteroid Dehydrogenase from Bacteria
r6-PGDH(Y)	recombinant Phosphogluconate Dehydrogenase from Yeast
r6-PGL(L)	recombinant 6-Phosphogluconolactonase from Leuconostoc sp.
rACE	recombinant Acylcarnitine Esterase from Bacteria
rCDH	recombinant Carnitine 3-Dehydrogenase from Bacteria
rD-LDH(Bacteria)	recombinant D-Lactate Dehydrogenase from Bacteria
rD-LDH(L)	recombinant D-Lactate Dehydrogenase from Leuconostoc sp.
rG-6-PDH(L)-43	recombinant Glucose-6-Phosphate Dehydrogenase from Leuconostoc sp. -43 Type
rG-6-PDH(L)-93	recombinant Glucose-6-Phosphate Dehydrogenase from Leuconostoc sp. -93 Type
rGK	recombinant Glycerol Kinase from Bacteria
rGIDH(NAD)	recombinant Glutamate Dehydrogenase(NAD ⁺) from Bacteria
rGIDH(NADP)	recombinant Glutamate Dehydrogenase(NADP ⁺) from Bacteria
rGIDH(Y)	recombinant Glutamate Dehydrogenase(NADP ⁺) from Yeast
rGPO	recombinant Glycerol 3-Phosphate Oxidase from Bacteria
rhALP	recombinant Human Alkaline Phosphatase from Human Liver
rhALT	recombinant Human Alanine Aminotransferase from Human Liver
rhAST	recombinant Human Aspartate Aminotransferase from Human Liver
rhCK-MB	recombinant Human Creatine Kinase-MB from Human Heart
rhCK-MM	recombinant Human Creatine Kinase-MM from Human Muscle
rhyGT	recombinant Human γ -Glutamyltransferase from Human Liver
rHK(Y)	recombinant Hexokinase from Yeast
rICDH(Taq)	recombinant Isocitrate Dehydrogenase(NADP ⁺) from Bacteria
rLDH(CH)	recombinant Lactate Dehydrogenase from Chicken Heart
rLDH(PH)	recombinant Lactate Dehydrogenase from Pig Heart
rLDH(RM)	recombinant Lactate Dehydrogenase from Rabbit Muscle
rMDH	recombinant Malate Dehydrogenase from Bacteria
rPCO	recombinant Protocatechuate 3,4-Dioxygenase from Bacteria
rphBH	recombinant p-Hydroxybenzoate Hydroxylase from Bacteria
rUrease	recombinant Urease
rUricase(Y)	recombinant Uricase from Yeast
rUricase-03	recombinant Uricase from Bacteria -03 Type
rUricase-73	recombinant Uricase from Bacteria -73 Type



Abbreviations

Abbreviations in Product List

Thio-NAD ⁺	Thionicotinamide-Adenine Dinucleotide, Oxidized Form
β-NAD ⁺	β-Nicotinamide-Adenine Dinucleotide, Oxidized Form
β-NADH	β-Nicotinamide-Adenine Dinucleotide, Reduced Form, Disodium Salt
β-NADP ⁺	β-Nicotinamide-Adenine Dinucleotide Phosphate, Oxidized Form, Monosodium Salt
β-NADP ⁺ -K	β-Nicotinamide-Adenine Dinucleotide Phosphate, Oxidized Form, Monopotassium Salt
β-NADP ⁺ -Na ₂	β-Nicotinamide-Adenine Dinucleotide Phosphate, Oxidized Form, Disodium Salt
β-NADPH	β-Nicotinamide-Adenine Dinucleotide Phosphate, Reduced Form, Tetrasodium Salt



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