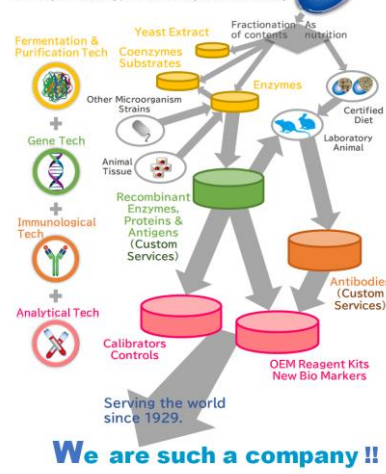


OYC Biochemicals

for CK assay

Dedicated to support human healthcare innovations with Japan Quality, Consistency and Reliability



OYC's Biochemicals are the most suitable materials for the development and manufacturing (production) of IVD reagents.

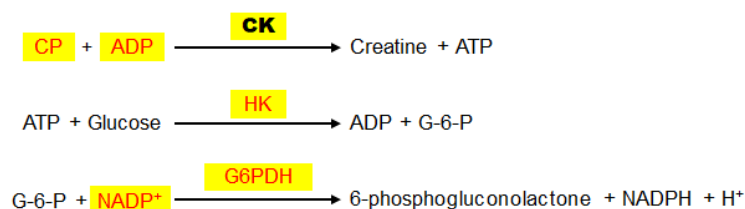
All products have passed through stringent product specifications.

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?

Assay Principle

CK Creatine Kinase; Total CK; Creatine Phosphokinase; CPK

Cardiac tests



- Eliminating AK interference from sample by adding **AP5A** and **AMP**.
- Stabilizing linearity for the assay by adding **6PGL**.



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

OYC can supply the following products in bulk size!

OYC's PRODUCTS for CK assay

Please contact us for the detailed product features.

rHK

Properties

Product Item	Catalog No.	pH stability (25°C, 1 week)	Thermal stability (pH 7.5, 10 min)	Optimum pH	Optimum temp.	Km value (ATP)	Km value (Glucose)
rHK(Y)	46763900	5.0-8.0	≤ 40°C	7.5-9.0	50°C	1.8 x 10 ⁻⁴ mol/L	2.9 x 10 ⁻⁴ mol/L

rG6PDH

Properties

Product Item	Catalog No.	pH stability (25°C, 1 week)	Thermal stability (pH 7.8, 30 min)	Optimum pH	Optimum temp.	Km value (G6P, NADP ⁺ -linked)	Km value (NADP ⁺)
rG6PDH(L)-43	46854903	5.0-9.0	≤ 37°C	7.5	45°C	1.4 x 10 ⁻⁴ mol/L	1.2 x 10 ⁻⁵ mol/L
rG6PDH(L)-93*	46860903	* Special for CK assay, of which has pre-added r6PGL.					

r6PGL

Properties

Product Item	Catalog No.	pH stability (25°C, 1 week)	Thermal stability (pH 7.5, 10 min)	Optimum pH	Optimum temp.
r6PGL(L)	46765900	5.0-9.5	≤ 50°C	6.0	25-37°C

NADP⁺

Product Item	Catalog No.
β-NADP ⁺	44292900
β-NADP ⁺ -K	44310900
β-NADP ⁺ -Na ₂	44300900

Substrates

Product Item	Catalog No.
ADP	45120900
ADP-K	45130900
AMP-Na	45110900
AP5A-3Li	45305000
CP	45180900

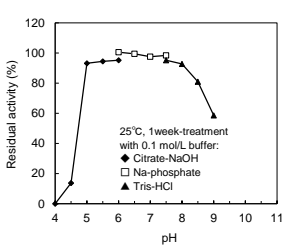
Control/Calibrator

Product Item	Catalog No.
rhCK-MB	46905903
rhCK-MM	46906903
Human Enzyme Calibrator	Please contact us

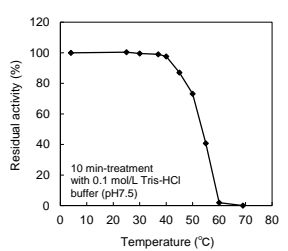
REFERENCE DATA -rHK

rHK (Y)

pH stability



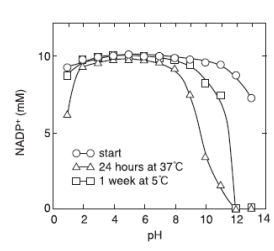
Thermal stability



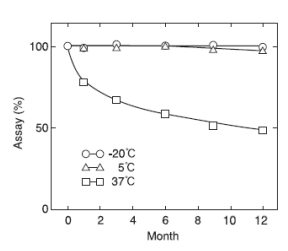
REFERENCE DATA -NADP⁺

NADP⁺-K

pH stability



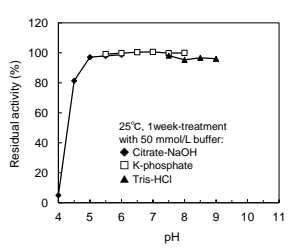
Long term stability



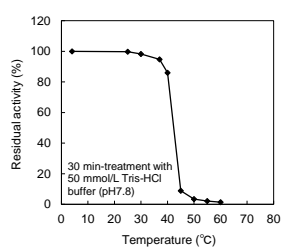
REFERENCE DATA -rG6PDH

rG6PDH (L)-43

pH stability



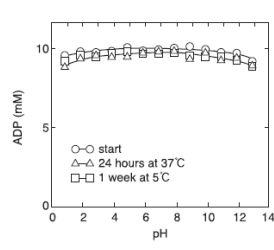
Thermal stability



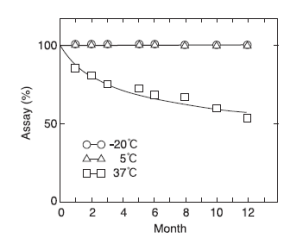
REFERENCE DATA -ADP

ADP

pH stability



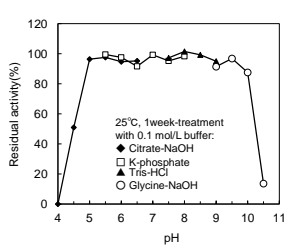
Long term stability



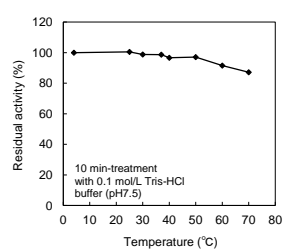
REFERENCE DATA -r6PGL

r6PGL (L)

pH stability



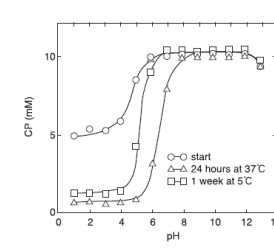
Thermal stability



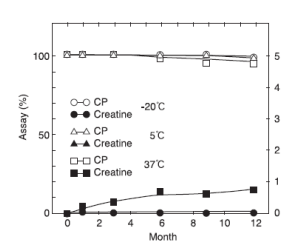
REFERENCE DATA -CP

CP

pH stability



Long term stability

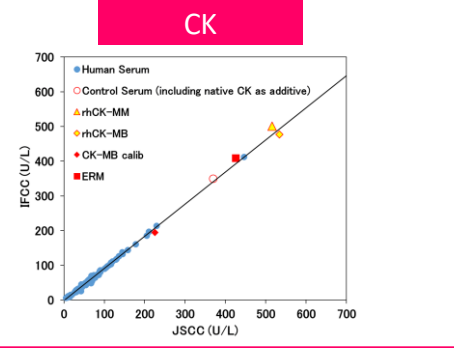


REFERENCE DATA -rhCK-MM, rhCK-MB

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 JCLLS
 JSCC : Japan Society of Clinical Chemistry
 IFCC : International Federation of Clinical Chemistry and Laboratory Medicine



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