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

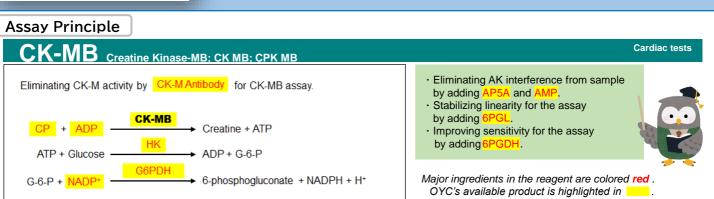
# OYC Biochemicals



## 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 size!

OYC's PRODUCTS for CK-MB assay

Please contact us for the detailed product features.

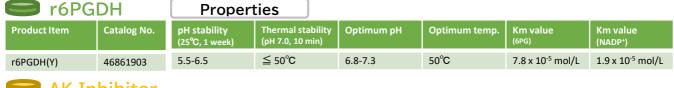
CHECK!

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



AK Inhibitor	
Product Item	Catalog No.
AMP-Na	45110900
AP5A-3Li	45305000

Antibody to CK-M subunit	
Product Item	Catalog No.
CK-MM-MCAmL(MX1)-12S	47097900

#### 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

25°C. 1week-treatment with 0.1 mol/L buffer Citrate-NaOH

K-phosphate

рΗ

120

100

80

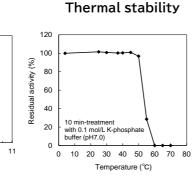
60

40

20

Residual activity (%)

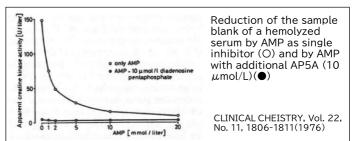
10



#### REFERENCE DATA – AK inhibitor

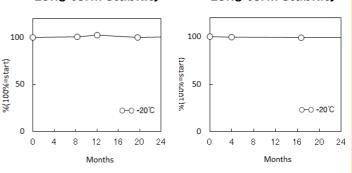
#### Eliminate AK interference

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



#### Long term stability

#### Long term stability



### REFERENCE DATA - Antibody to CK-M subunit

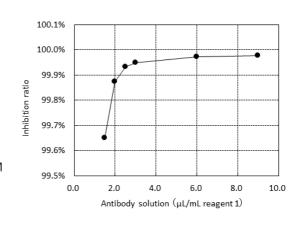
### Eliminate CK-M activity

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



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



Please contact our sales representative or visit the following website.

http://www.oyc-bio.jp/pages/info/english