

# OYC Biochemicals

## for Glucose assay

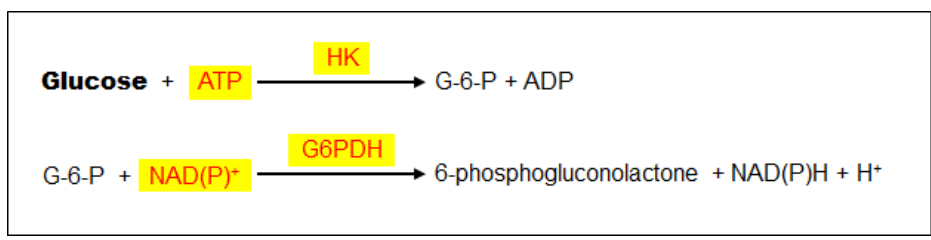


OYC's Biochemicals are the most suitable materials for the development and manufacture of IVD reagents. All products have passed through stringent product specifications. We supply our customers with various raw materials for Glucose (Blood Sugar) reagents for the HK-G6PDH method. NADP<sup>+</sup> is an ideal coenzyme to erase matrix interference from clinical samples. Would you like to combine OYC raw materials to create an optimal glucose reagent?

### Assay Principle

## Glucose Diabetes tests

Fasting Blood Glucose (FBG), Blood Sugar, Fasting Blood Sugar (FBS), Fasting Plasma Glucose (FPG)



NADP<sup>+</sup> is preferred for the assay rather than NAD<sup>+</sup>.

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 Glucose assay

#### 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 <sup>-4</sup> mol/L | 2.9 x 10 <sup>-4</sup> 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 <sup>+</sup> -linked) | Km value (NADP <sup>+</sup> ) |
|--------------|-------------|-----------------------------|------------------------------------|------------|---------------|-------------------------------------------|-------------------------------|
| rG6PDH(L)-43 | 46854903    | 5.0-9.0                     | ≤ 37°C                             | 7.5        | 45°C          | 1.4 x 10 <sup>-4</sup> mol/L              | 1.2 x 10 <sup>-5</sup> mol/L  |

#### NADP<sup>+</sup>

| Product Item        | Catalog No. |
|---------------------|-------------|
| β-NADP <sup>+</sup> | 44292900    |

#### NAD<sup>+</sup>

| Product Item       | Catalog No. |
|--------------------|-------------|
| β-NAD <sup>+</sup> | 44065900    |

#### ATP

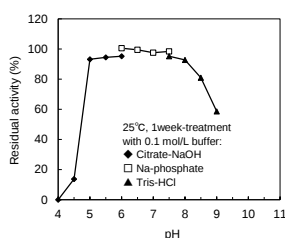
| Product Item | Catalog No. |
|--------------|-------------|
| ATP-II       | 45147900    |

\* Please contact us for the detailed product features.

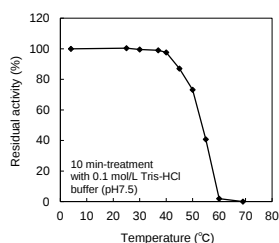
## REFERENCE DATA -rHK

rHK (Y)

### pH stability



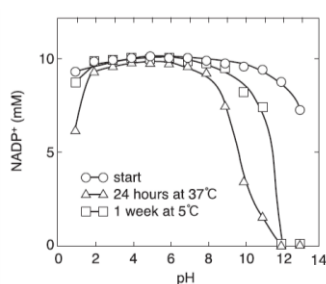
### Thermal stability



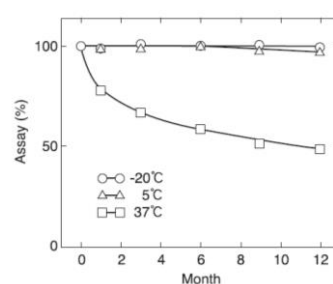
## REFERENCE DATA -NADP<sup>+</sup>

NADP<sup>+</sup>

### pH stability



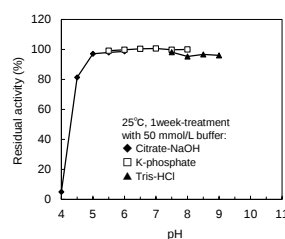
### Long term stability



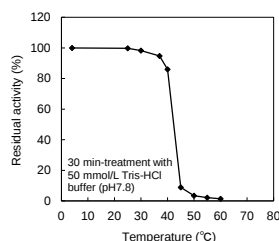
## REFERENCE DATA -rG6PDH

rG6PDH (L)-43

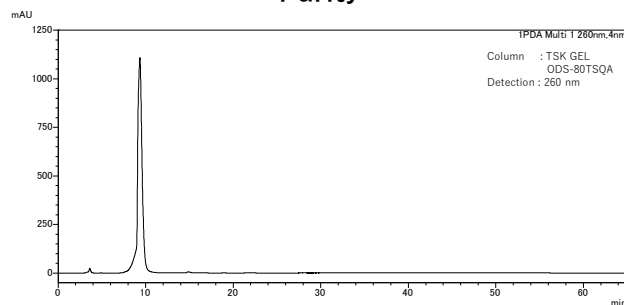
### pH stability



### Thermal stability



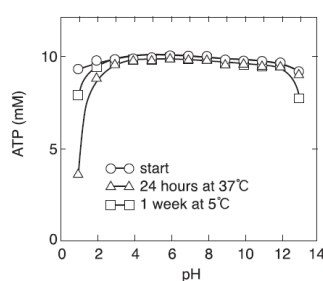
### Purity



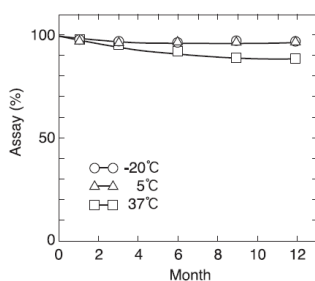
## REFERENCE DATA -ATP

ATP-II

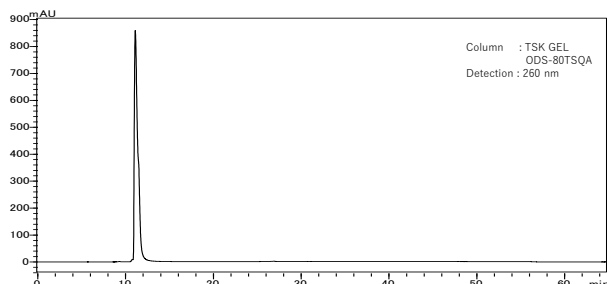
### pH stability



### Long term stability



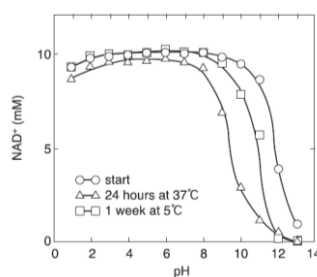
### Purity



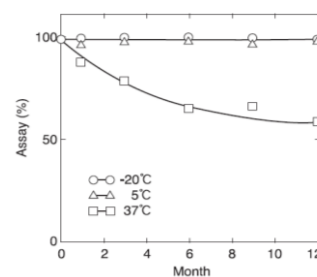
## REFERENCE DATA -NAD<sup>+</sup>

NAD<sup>+</sup>

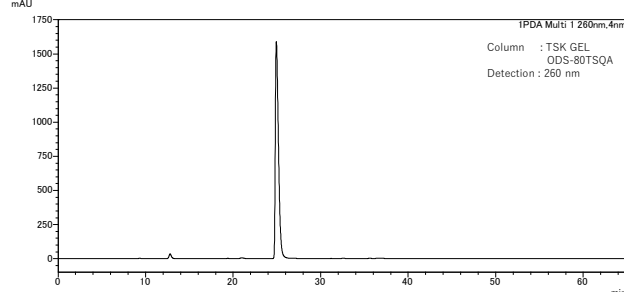
### pH stability



### Long term stability



### Purity



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.

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