

G6PD

Cod: BCS180954 (100test) - Cod: BCS180955 (50test)
Glucose-6-phosphate dehydrogenase
(D-glucose-6-phosphate: NADP oxidoreductase ; G6PD, E.C.1.1.1.49)



**KIT
ALL INCLUSIVE**

- REAGENT FOR THE HEMOGLOBIN
- HEMOLYSING SOLUTION
- REACTIVE FOR G6PD

1°

**THE FIRST AND UNIQUE ALL
INCLUSIVE READY TO USE**

**Kit for quantitative determination of G6PD
activity on whole blood, according to
WHO standardization (WHO-37).**

Glucose-6-phosphate dehydrogenase (G6PD) deficiency is an hereditary enzymatic defect that affects over 400 million people all over the world: the main clinical manifestation is that of hemolytic crises caused either by ingestion of fava beans or certain drugs, or by viral or bacterial infections. The enzyme deficiency is transmitted as an X-linked gene: males are more likely to be affected by this deficiency than females, as they can be either homozygote or heterozygote for the defect.

STORAGE CONDITIONS:

All the reagents are ready to use and are to be stored in the dark at 2°C÷8 °C.

The G6PD
(Code BCS180954/ Code BCS180955)
kit is stable until expiration date
if stored appropriately at the
temperature written on the label or
at 2-8°C on automatic analyzers.

SAMPLE:

Whole blood is collected in K3EDTA,
ACD, or heparin.

PRINCIPLE

G6PD activity is calculated on NADPH absorbance values at 340nm in the course of the reaction:



Where: G6P = D-glucose-6-phosphate;
NADP⁺ = nicotinamide adenine dinucleotide phosphate ;
6PGA = 6-phosphogluconate acid.

The results are expressed in terms of enzyme units (μmoles of substrate converted/min) per gram of haemoglobin.

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G6PD



The Glucose-6-phosphate dehydrogenase (G6PD) kit was validated on totally automated instruments that work at the wavelength of 540 nm and 340 nm, such:

Roche Diagnostics Cobas C311
Roche Diagnostics Cobas C501/C502
Roche Diagnostics Cobas c702/
Roche Diagnostics Cobas Integra 800
Siemens 550 Express/ Dimension AR-XL
Siemens Advia 1200/1650/1800/2400
Beckman Coulter AU400/ AU600/ AU680
Beckman Coulter AU480/ AU2700 Plus
Beckman Coulter AU5800
Beckman Coulter DxC 700 AU
Abbott - Architect C16000/ C4000/ C8000
Abbott - Architect Ci 16200/4100/8200
Abbott - Alinity c
Johnson&Johnson Vitros 5600/ 4600/ 5.1
Erba Mannheim XL600/ XL640/ XL300/ XL200

HITACHI - 717 / 747 / 917 / 704
HITACHI - 911 / 912
BIOTECNICA INSTRUMENTS
BT 3000 Plus / BT1500 / BT 100
BT 2000 Plus / BT 3500 Plus
DU PONT - Dimension AR-XL
RANDOX - RX Imola / RX Daytona
RANDOX - RX Monaco
INSTRUMENTATION LABORATORY
iLab Aries / 650 / Taurus / 300 Plus
KONELAB - 20 / 30 / 60 / 5.0.1
KONELAB - 200 / 500 / 600
Johnson&Johnson - Vitros 5600
BPC BioSed - GLOBAL 240 / 300
BPC BioSed - GLOBAL 400 / 600
BPC BioSed - GLOBAL 700
BPC BioSed - KEYLAB
MINDRAY - BS400

The following internal controls
are also available :

G6PD CONTROLS SET
CONTROL G6PD NORMAL
CONTROL G6PD INTERMEDIATE
CONTROL G6PD DEFICIENT

The Specifications are subject to change without prior notice by
Manufacturer.



READ THE PROTOCOLS FIRST TO USE.



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