

# G6PD

Cod: BCS180954 (100dt.) - Cod: BCS180955 (50dt.)

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<sup>+</sup> = 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.

**Be BIOTECH S.R.L.**

Legal Address: Via Bellini, 9 - 09128 Cagliari -Office & Laboratories: Viale Monastir, 112 - 09122 Cagliari - Italy  
TEL. : +39 070 2085048 - FAX.: +39 070 2085901 - [www.bebiotech.eu](http://www.bebiotech.eu)

# 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 Modular P**  
**ROCHE Cobas Integra 400 Plus/800**  
**SIEMENS 550 Express/ Dimension AR-XL**  
**SIEMENS Advia 1200/1650/1800/2400**  
**Olympus AU400/ AU600/ AU680**  
**Olympus AU480/ AU2700 Plus**  
**Olympus AU5800**  
**Beckman DxC 700 AU**  
**ABBOTT Architect C16000/ C 4000/ C8000**  
**ABBOTT Architect Ci 16200/4100/8200**  
**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.

UNI EN ISO 9001:2015  
UNI CEI EN ISO 13485:2016



SISTEMI DI GESTIONE  
QUALITÀ CERTIFICATI



CERTIQUALITY  
È MEMBRO DELLA  
FEDERAZIONE CISQ

CE

IVD



**Be BIOTECH S.R.L.**

Legal Address: Via Bellini, 9  
09128 - Cagliari (Italy)  
Office & Laboratories:  
Viale Monastir, 112  
09122 - Cagliari (Italy).  
TEL.: +39 070 2085048  
FAX : +39 070 2085901  
www.bebiotech.eu