



## Document Information:

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## Specification

Product: **Glucose HK Gen.3  
(GLUC3)**

Catalog No. 05168791190  
**05168791214**

### Intended use:

In vitro test for the quantitative determination of glucose in human serum, plasma, urine and CSF on Roche/Hitachi cobas c systems.

### Test principle:

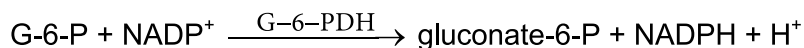
UV test

Enzymatic reference method with hexokinase.

Hexokinase catalyzes the phosphorylation of glucose to glucose-6-phosphate by ATP.



Glucose-6-phosphate dehydrogenase oxidizes glucose-6-phosphate in the presence of NADP to gluconate-6-phosphate. No other carbohydrate is oxidized. The rate of NADPH formation during the reaction is directly proportional to the glucose concentration and is measured photometrically.



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## 1. Reagents-working solutions:

### 1.1 Buffer/ATP/NADP solution (B):

1.1.1 pH-value (25 °C): 5.90 - 6.10

### 1.2 Buffer/HK/G6P-DH solution (C):

1.2.1 pH-value (25 °C): 7.90 - 8.10

## 2. Performance test:

### 2.1 Recovery on Roche/Hitachi cobas c 701/702 analyzer(s):

PreciControl ClinChem Multi 1 (Cat. No. 05947626190): 90 - 110 %

PreciControl ClinChem Multi 2 (Cat. No. 05947774190): 90 - 110 %

### Also required:

Calibrator f.a.s. (Cat. No.: 10759350190)