

### 改良红细胞葡萄糖-6-磷酸脱氢酶活性直接测定法

#### A Modified Assay of Glucose-6-Phosphate Dehydrogenase in Red Blood Cell

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英文关键词: [G6PD](#) [6PGD](#) [rate](#) [Mhb](#)

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中文摘要:

建立一个在全自动生化分析仪上, 去除6-磷酸葡萄糖酸脱氢酶(6PGD)对结果的影响且能准确、快速检测葡萄糖-6-磷酸脱氢酶(G6PD)活性的定量方法. 采用自动扣减样本空白的速率法对107例正常人, 31例G6PD明显缺陷病人(经高铁血红蛋白还原率法筛选)血样本进行测定. 表明灵敏度达0.27 U/gHb. 批内CV=5.6%; 批间CV=9.4%. 线性范围在0~15 U/gHb. 与常规的高铁血红蛋白还原率法结果比较, 两法相关系数( $r$ )=0.863. 速率法特异性较好, 有结果稳定、准确、操作简便、检测快速等优点, 是一种值得推广使用的方法.

英文摘要:

To develop a precise and rapid method for glucose-6-phosphate dehydrogenase (G6PD) assay on the auto-analysis eliminating the interruption of 6-glucose-phosphate dehydrogenase (6PGD). Human blood samples from 107 normal people and 31 patients with obvious G6PD deficiency (Methemoglobin Mhb) were analyzed by Rate A with sample blank correction is desired. Results showed that the measured sensitivity was 0.27 U/gHb, the within-run precision was 0.145. the coefficient of variation (CV) was 5.6% and the between-run precision was 0.229. the CV was 9.4%. The linear was between 0~15 U/gHb. Compared to the results measure by Rate A with sample blank correction is desired. The correlation coefficient ( $r$ ) to two methods was 0.863. These results indicate that it is a specificity, stable, simple and rapid method and this method is deserved to be popularized.

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