

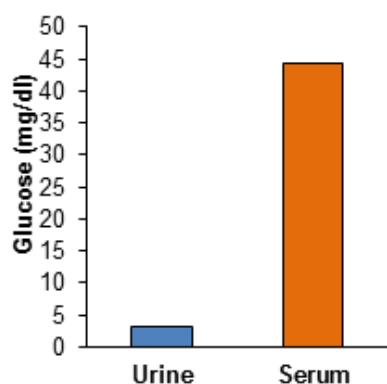
Glucose

Glucose is without a doubt, the most important sugar in mammalian metabolism. Glucose serves as a vital energy source for many organisms, including plants and animals. BioVision offers the most complete series of assays kits aimed to measure this sugar, metabolites and other enzymes involved in its metabolism.

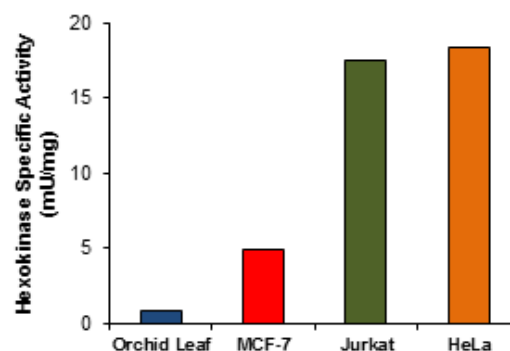
Key Features:

- **Non-radioactive**, homogeneous assays
- **Specific** assays
- **Convenient**: minimal sample preparation; fast protocols (1-2 hours)
- **Cost effective**: 50/100 assays; High Throughput Screening compatible
- **Validated**: using mammalian tissues, cells, biological fluids

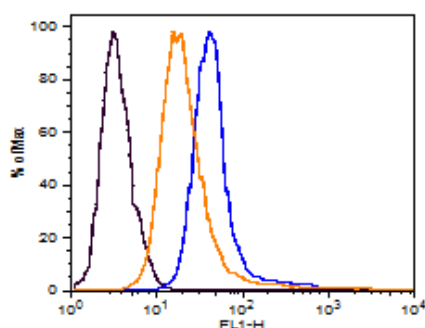
A)



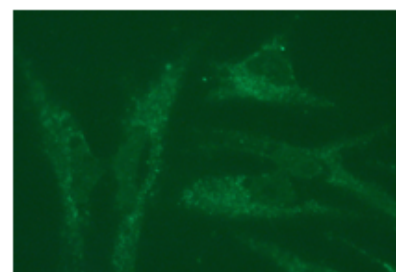
B)



C)



D)



Figures: A) Glucose concentration in human urine and serum was estimated using **K606-100**. B) Hexokinase activity in various samples (orchid leaf, MCF-7, Jurkat and HeLa cell) was determined using **K769-100**. C) Flow Cytometry histograms, using **K681-50** showing the inhibition of glucose uptake by phloretin in Jurkat cells (**Black**: negative control cells; **orange**: in the presence of phloretin; **blue**: without phloretin). D) 1,5-AG uptake in HeLa cells using **K684-50**: HeLa cells showing the uptake of AGTracker™ Reagent in the cytoplasm. Cells were stained with AGTracker™ Reagent for 30 min. and fixed. Image was taken using a fluorescent microscope with a 60X oil objective lens.

155 S. Milpitas Blvd, Milpitas, CA 95035

T: 408-493-1800 F: 408-493-1801

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BioVision
BioVision Incorporated



The simplest, yet sensitive series of assays in the market!!!

Assay Kits

| | Target | Cat. No. | Detection Limit | Sample Type |
|-------------------|---------------------------------------|----------|-----------------|------------------------------|
| Metabolite | Glucose (C) | K686 | 1000 pmol | Serum, cells, tissues, food |
| | Glucose (C/F) | K606 | 100 pmol | Serum, cells, tissues, urine |
| | Glucose (F) | K688 | 10 pmol | Serum, cells, tissues, food |
| | Glucose (384-well) (C) | K950 | 500 pmol | Serum |
| | Glucose/Maltose (C/F) | K618 | 500 pmol | Serum, cells, tissues |
| | Glucose/Sucrose (C/F) | K616 | 1000 pmol | Cells, tissues, food |
| | Glucose-1-Phosphate (C) | K697 | 1000 pmol | Serum, cells, tissues, food |
| | Glucose-6-Phosphate (C) | K657 | 1000 pmol | Serum, cells, tissues |
| | Glucose-6-Phosphate (F) | K687 | 5 pmol | Serum, cells, tissues |
| Enzyme | Glucose Dehydrogenase (C) | K786 | 0.01 mU | Cells, tissues, PP |
| | Glucose Oxidase (C/F) | K788 | 0.01 mU | Cells, tissues, PP |
| | Glucose-6-Phosphate Dehydrogenase (C) | K757 | 0.04 mU | Cells, tissues, PP |
| | Glucose-6-Phosphate Dehydrogenase (F) | K751 | 1 μU | Cells, tissues, PP |
| | Hexokinase (F) | K769 | 2 μU | Serum, cells, tissues, PP |
| | Phosphoglucomutase (C) | K774 | 1 mU | Cells, tissues, PP |
| | Phosphoglucomutase (F) | K770 | 20 μU | Serum, cells, tissues, PP |
| | Phosphogluco Isomerase (C) | K775 | 0.1 mU | Serum, cells, tissues |
| Cell Bead | 1,5-Anhydroglucitol Uptake** (F) | K684 | N/A | Adherent/Suspension |
| | Glucose Uptake** (F) | K681 | N/A | Adherent/Suspension |
| | Glucose Uptake (C) | K676 | 10 pmol | Adherent/Suspension |
| | Glucose Uptake (F) | K666 | 1000 pmol | Adherent/Suspension |
| | 2-NBDG Glucose Uptake** (F) | K682 | N/A | Adherent/Suspension |

*C: Colorimetric; F: Fluorometric; PP: Protein Preparation
 ** Suitable for Flow Cytometry and Fluorescence Microscopy

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