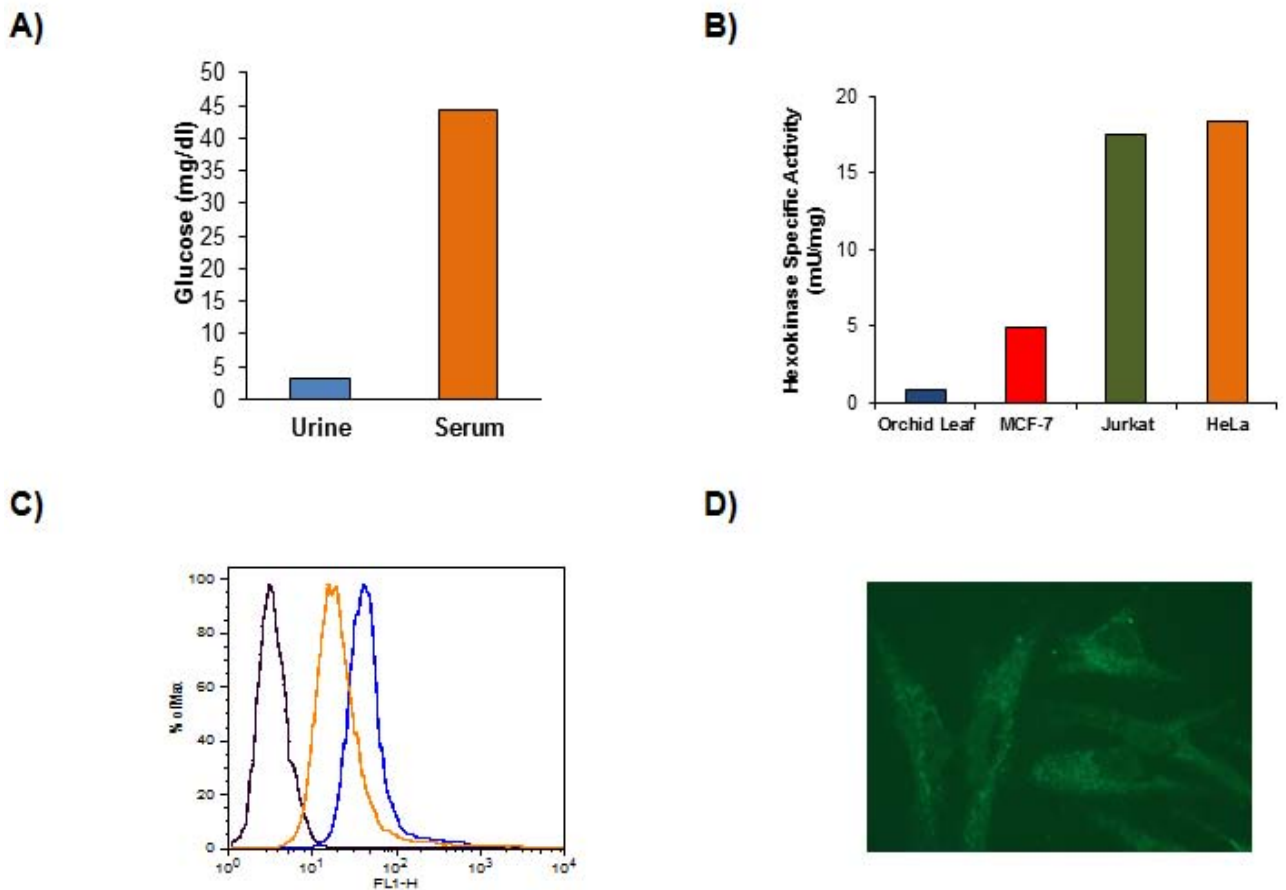


Glucose

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



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 AGTrackerTM Reagent in the cytoplasm. Cells were stained with AGTrackerTM Reagent for 30 min. and fixed. Image was taken using a fluorescent microscope with a 60X oil objective lens.

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Assay Kits

	Target	Cat. No.	Detection*	Detection Limit	Sample Type
Metabolite	Glucose	K686-100	C	1000 pmol	Serum, cells, tissues, food
	Glucose	K606-100	C/F	100 pmol	Serum, cells, tissues, urine
	Glucose	K688-100	F	10 pmol	Serum, cells, tissues, food
	Glucose (384-well)	K950-384	C	500 pmol	Serum
	Glucose/Maltose	K618-100	C/F	500 pmol	Serum, cells, tissues
	Glucose/Sucrose	K616-100	C/F	1000 pmol	Cells, tissues, food
	Glucose-1-Phosphate	K697-100	C	1000 pmol	Serum, cells, tissues, food
	Glucose-6-Phosphate	K657-100	C	1000 pmol	Serum, cells, tissues
	Glucose-6-Phosphate	K687-100	F	5 pmol	Serum, cells, tissues
Enzyme	Glucose Dehydrogenase	K786-100	C	0.01 mU	Cells, tissues, PP
	Glucose Oxidase	K788-100	C/F	0.01 mU	Cells, tissues, PP
	Glucose-6-Phosphate Dehydrogenase	K757-100	C	0.04 mU	Cells, tissues, PP
	Glucose-6-Phosphate Dehydrogenase	K751-100	F	1 μ U	Cells, tissues, PP
	Hexokinase	K769-100	F	2 μ U	Serum, cells, tissues, PP
	Phosphoglucomutase	K774-100	C	1 mU	Cells, tissues, PP
	Phosphoglucomutase	K770-100	F	20 μ U	Serum, cells, tissues, PP
	Phosphoglucose Isomerase	K775-100	C	0.1 mU	Serum, cells, tissues
Cell Bead	1,5-Anhydroglucitol Uptake**	K684-50	F	N/A	Adherent/Suspension
	2-NBDG Glucose Uptake**	K682-50	F	N/A	Adherent/Suspension
	Glucose Uptake**	K681-50	F	N/A	Adherent/Suspension
	Glucose Uptake	K676-100	C	10 pmol	Adherent/Suspension
	Glucose Uptake	K666-100	F	1000 pmol	Adherent/Suspension

*C: Colorimetric; F: Fluorometric; PP: Protein Preparation

** Suitable for Flow Cytometry and Fluorescence Microscopy

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