

Immunometabolism Assays

Glucose Uptake | Glycolysis | TCA | OxPhos | Lipid | Urea | Ferroptosis



ASPIRE

DISCOVER

Assay Genie: Maximum Support

About to Assay Genie

Assay Genie is a proprietary range of cell-based & biochemical assay kits developed by Reagent Genie, a life science reagents company with offices in London & Dublin and a global distribution network covering 32 countries.

Founded by Colm Ryan PhD and Sean Mac Fhearraigh PhD, Assay Genie provides premium quality assay kits along with excellent technical & logistics support so you can aspire to discover the future.



COLM RYAN PhD
CEO & co-founder of
Reagent Genie



SEÁN MAC FHEARRAIGH PhD
CTO & co-founder of Reagent Genie

Maximum Support & Guarantee

Assay Genie strives to provide excellence in support to scientists all around the globe.

Assay Genie provides scientists with application-based support before, during and after testing or experiments are performed. On those rare occasions when problems arise, Assay Genie technical support scientists have a defined series of customer-centric steps to ensure that products perform to the maximum standards.



- Technical support: email, video, phone
- Troubleshooting
- Replacement kit
- 100% Money-back guarantee

Rapid Global Delivery

Whether you are served by one of the trusted global distributors or are part of the direct logistics network, Assay Genie endeavours to ship products on-time, every time!

Contact Assay Genie 24/7 on info@reagentgenie.com with any technical, sales or logistics questions.



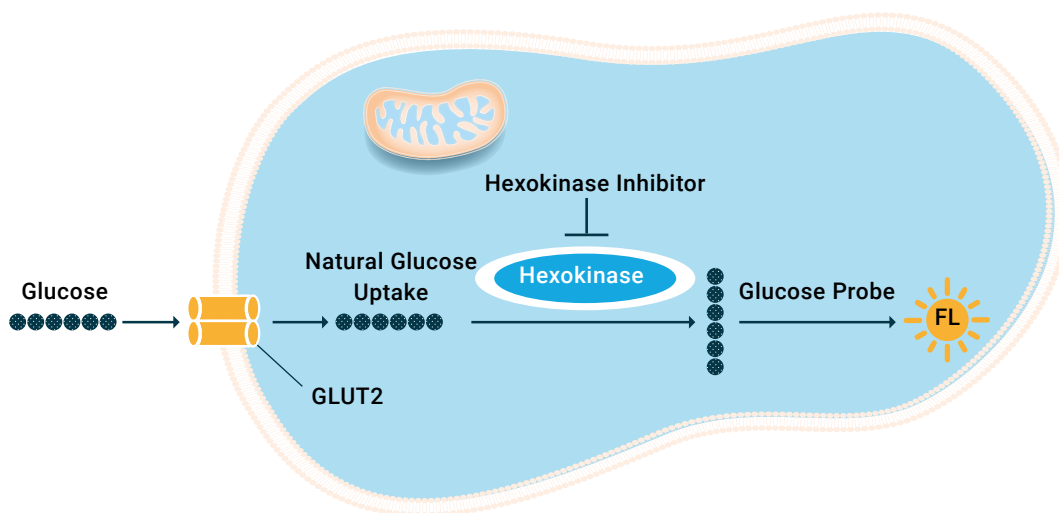
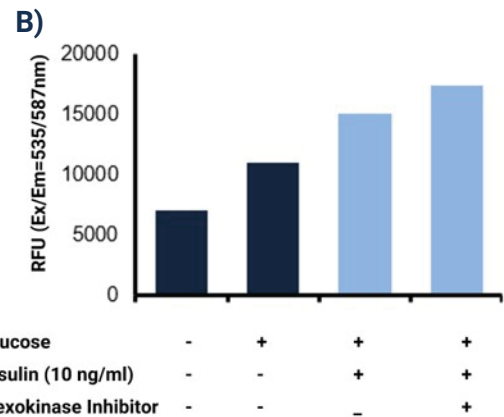
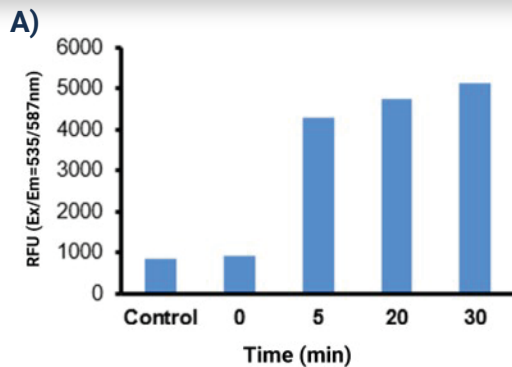
Direct Glucose Uptake Assay

Traditional Glucose Uptake assays rely on glucose analogues such as 2DG to measure the uptake & accumulation of Glucose in cells. However, there is an increasing body of evidence showing that glucose analogues not only have off-target effects but can be also transported by Mannose transporters giving highly erroneous experimental results.

To overcome these limitations, Assay Genie have created a Direct Glucose Uptake assay that uses a hexokinase inhibitor to block the metabolism of glucose at the first step of glycolysis. The accumulation of natural glucose taken up by the cells is measured using a highly specific glucose probe.

Key Features

- Real Data: Directly measures Glucose uptake and accumulation in cells with our unique Glucose Probe and not via unspecific analogue such as 2-DG (see diagram below)
- Super Sensitive: Detect down to 5pmol per well
- Versatile: Fluorometric assay format with adherent or suspension cells
- Automatable: automated on high throughput robotic liquid handling systems in 96-well, 384-well and 1,536-well formats

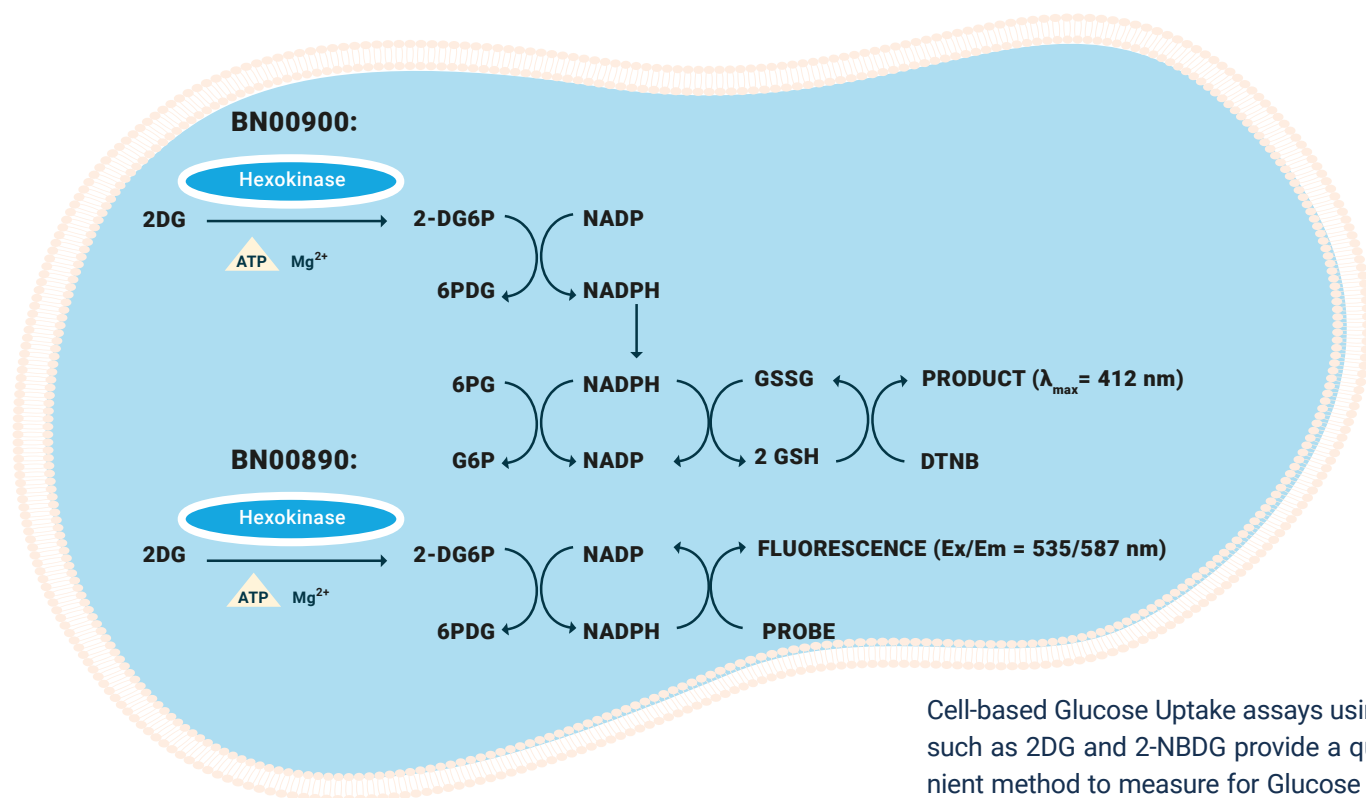


A) Glucose Uptake time course in Jurkat Cells: Cells were starved (Glucose-free, FBS-free media, inhibitor incubation time: 2 h.

B) 3T3-L1 cells were Glucose and FBS Deprived for 24 hrs, switched to media with Glucose, stimulated without or with Insulin (10 ng/ml) for 15 min (Blue bars), with or without 1X Inhibitor.

ASSAY	CODE	READ-OUT	SENSITIVITY	SAMPLE TYPE	PACK SIZE
Direct Glucose Uptake Assay Kit	BN01098	Fluorometric	5pmol	Adherent/Suspension	50 Assays

Cell-Based Glucose Uptake Assays



Cell-based Glucose Uptake assays using analogues such as 2DG and 2-NBDG provide a quick & convenient method to measure for Glucose Uptake using plate readers or a flow cytometer.

CELL-BASED GLUCOSE UPTAKE ASSAYS

ASSAY	CODE	READ-OUT	SENSITIVITY	SAMPLE TYPE	PACK SIZE
1,5-Anhydroglucitol Uptake Assay Kit (Cell-Based)	BN00908	Fluorometric	N/A	Adherent/Suspension	50 Assays
2-NBDG Glucose Uptake Assay Kit (Cell-Based)	BN00906	Fluorometric	N/A	Adherent/Suspension	50 Assays
Glucose Uptake Assay Kit (Cell-Based)	BN00905	Fluorometric	N/A	Adherent/Suspension	50 Assays
Glucose Uptake Colorimetric Assay Kit	BN00900	Colorimetric	10 pmol	Adherent/Suspension	100 Assays
Glucose Uptake Fluorometric Assay Kit	BN00890	Fluorometric	1000 pmol	Adherent/Suspension	100 Assays
Direct Glucose Uptake Assay Kit	BN01098	Fluorometric	5pmol	Adherent/Suspension	50 Assays

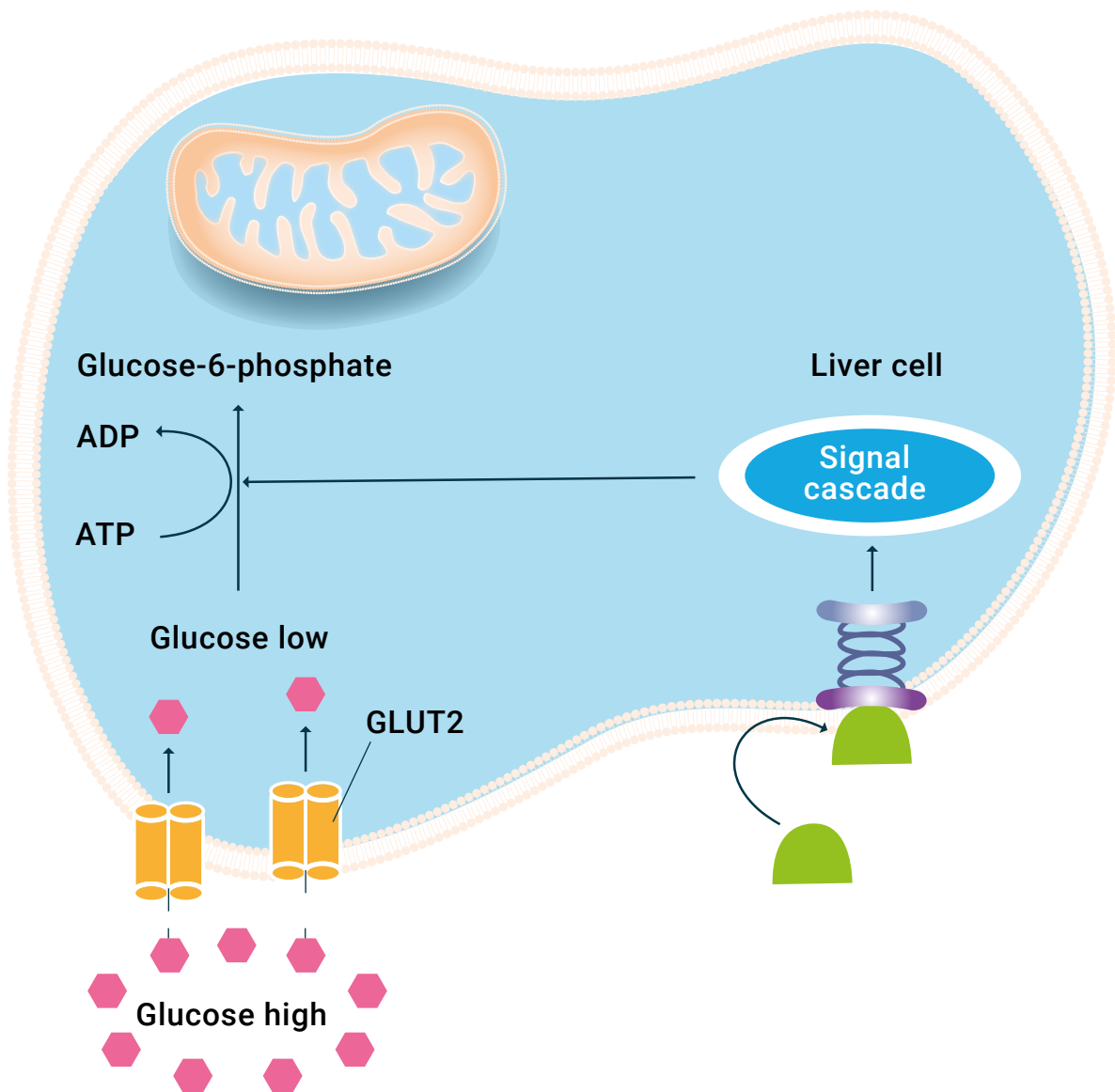
Glucose Metabolism

Assay Genie have created a suite of over 15 different assays for measuring glucose metabolism as well as the myriad of enzymes involved in the process.

These assays enable the highly sensitive and reproducible detection of glucose metabolism in a wide variety of sample types.

Key Features

- Highly Sensitivity: down to as little 1pmol well on 96-well plates
- Versatile: Colorimetric or Fluorometric assay formats
- Flexible: compatible with a wide range of sample types
- Automatable: most assays can be automated on high throughput robotic liquid handling systems in 96-well, 384-well and 1,536-well formats



Glycolysis

METABOLITE

ASSAY	CODE	READ-OUT	SENSITIVITY	SAMPLE TYPE	PACK SIZE
Glucose Colorimetric Assay Kit II	BN00910	Colorimetric	1000 pmol	Serum, cells, tissues, food	100 Assays
Glucose Colorimetric / Fluorometric Assay Kit	BN00830	Colorimetric / Fluorometric	100 pmol	Serum, cells, tissues, urine	100 Assays
Glucose Fluorometric Assay Kit	BN00912	Fluorometric	10 pmol	Serum, cells, tissues, food	100 Assays
Glucose Colorimetric Assay Kit (384 Well)	BN01111	Colorimetric	500 pmol	Serum	384 Assays
Maltose and Glucose Colorimetric / Fluorometric Assay Kit	BN00842	Colorimetric / Fluorometric	500 pmol	Serum, cells, tissues	100 Assays
Glucose and Sucrose Colorimetric / Fluorometric Assay Kit	BN00840	Colorimetric / Fluorometric	1000 pmol	Cells, tissues, food	100 Assays
Glucose-1-Phosphate Colorimetric Assay Kit	BN00921	Colorimetric	1000 pmol	Serum, cells, tissues, food	100 Assays
Glucose-6-Phosphate Colorimetric Assay Kit	BN00881	Colorimetric	1000 pmol	Serum, cells, tissues	100 Assays
Glucose-6-Phosphate Fluorometric Assay Kit	BN00911	Fluorometric	5 pmol	Serum, cells, tissues	100 Assays

ENZYME

ASSAY	CODE	READ-OUT	SENSITIVITY	SAMPLE TYPE	PACK SIZE
Glucose Dehydrogenase Activity Colorimetric Assay Kit	BN00999	Colorimetric	0.01 mU	Cells, tissues, Protein Prep	100 Assays
Glucose Oxidase Activity Colorimetric / Fluorometric Assay Kit	BN01001	Colorimetric / Fluorometric	0.01 mU	Cells, tissues, PP	100 Assays
Glucose-6-Phosphate Dehydrogenase Activity Colorimetric Assay Kit	BN00970	Fluorometric	0.04 mU	Cells, tissues, PP	100 Assays
Glucose-6-Phosphate Dehydrogenase Activity Assay Kit (Fluorometric)	BN00964	Fluorometric	1 μ U	Cells, tissues, PP	100 Assays
Hexokinase Activity Assay Kit (Fluorometric)	BN00982	Fluorometric	2 μ U	Serum, cells, tissues, PP	100 Assays
Phosphoglucomutase Colorimetric Assay Kit	BN00987	Colorimetric	1 mU	Cells, tissues, PP	100 Assays
Phosphoglucomutase Assay Kit (Fluorometric)	BN00983	Fluorometric	20 μ U	Serum, cells, tissues, PP	100 Assays
Phosphoglucose Isomerase Activity Colorimetric Assay Kit	BN00988	Colorimetric	0.1 mU	Serum, cells, tissues	100 Assays

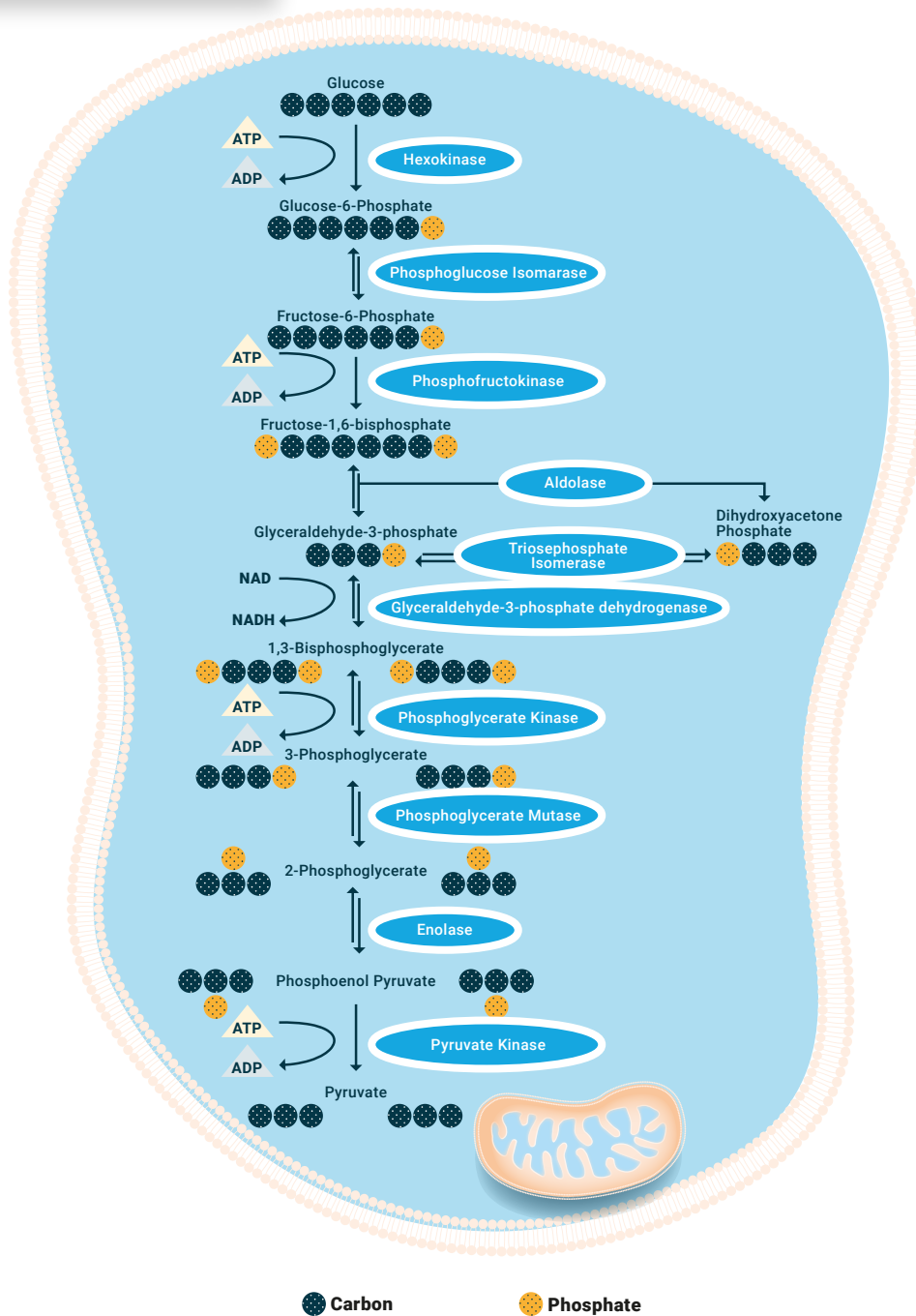
Glycolysis

Assay Genie have created a suite of over 30 different assays for measuring glycolysis as well as the enzymes involved in the process.

These assays enable the highly sensitive and reproducible detection of glycolysis in a wide variety of sample types.

Key Features

- Highly Sensitivity: down to as little 5pmol well on 96-well plates
- Versatile: Colorimetric, Fluorometric & luminescent assay formats
- Flexible: compatible with a wide range of sample types
- Automatable: most assays can be automated on high throughput robotic liquid handling systems in 96-well, 384-well and 1,536-well formats



Glycolysis

METABOLITE

ASSAY	CODE	READ-OUT	SENSITIVITY	SAMPLE TYPE	PACK SIZE
Dihydroxyacetone Phosphate (DHAP) Fluorometric Assay Kit	BN00897	Fluorometric	50 pmol	Cells, tissues	100 Assays
Glucose Colorimetric / Fluorometric Assay Kit	BN00830	Colorimetric / Fluorometric	100 pmol	Serum, cells, tissues, urine	100 Assays
Glucose Colorimetric Assay Kit II	BN00910	Colorimetric	1000 pmol	Serum, cells, tissues, food	100 Assays
Glucose Fluorometric Assay Kit	BN00912	Fluorometric	10 pmol	Serum, cells, tissues, food	100 Assays
Glucose-6-Phosphate Colorimetric Assay Kit	BN00881	Colorimetric	1000 pmol	Serum, cells, tissues	100 Assays
Glucose-6-Phosphate Fluorometric Assay Kit	BN00911	Fluorometric	5 pmol	Serum, cells, tissues	100 Assays
2-Phosphoglycerate Colorimetric / Fluorometric Assay Kit	BN00991	Colorimetric / Fluorometric	20 pmol	Cells, tissues	100 Assays
PEP Colorimetric / Fluorometric Assay Kit	BN00628	Colorimetric / Fluorometric	100 pmol	Cells, tissues	100 Assays
Pyruvate Colorimetric / Fluorometric Assay Kit	BN00833	Colorimetric / Fluorometric	100 pmol	Cells, tissues	100 Assays

ENZYMES

ASSAY	CODE	READ-OUT	SENSITIVITY	SAMPLE TYPE	PACK SIZE
Aldolase Activity Colorimetric Assay Kit	BN00889	Colorimetric	100 mU	Cells, tissues	100 Assays
Enolase Activity Colorimetric / Fluorometric Assay Kit	BN00915	Colorimetric / Fluorometric	0.04 mU	Cells, tissues	100 Assays
GAPDH Activity Assay Kit	BN00904	Colorimetric	10 mU	Cells, tissues	100 Assays
Hexokinase Activity Assay Kit (Fluorometric)	BN00982	Fluorometric	2 μ U	Serum, cells, tissues	100 Assays
Human Hexokinase (HK) Inhibitor Screening Kit (Colorimetric)	BN00933	Colorimetric	N/A	N/A	100 Assays
Phosphofructokinase (PFK) Activity Colorimetric Assay Kit	BN00989	Colorimetric	1 mU	Cells, tissues	100 Assays
Phosphoglucose Isomerase Activity Colorimetric Assay Kit	BN00988	Colorimetric	0.1 mU	Serum, cells, tissues	100 Assays
Pyruvate Kinase Activity Colorimetric / Fluorometric Assay Kit	BN00929	Colorimetric / Fluorometric	1000 mU	Cells, tissues	100 Assays
Triose Phosphate Isomerase (TPI) Activity Colorimetric Assay Kit	BN00894	Colorimetric	4 mU	Cells, tissues	100 Assays

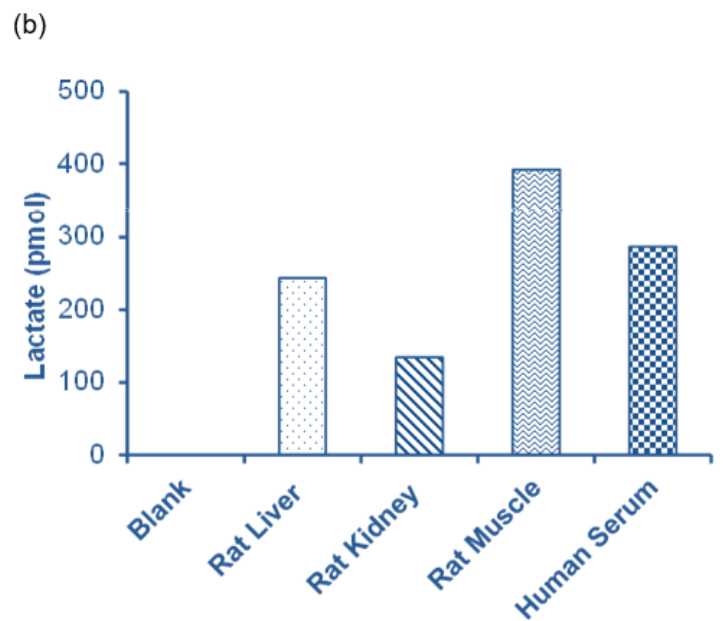
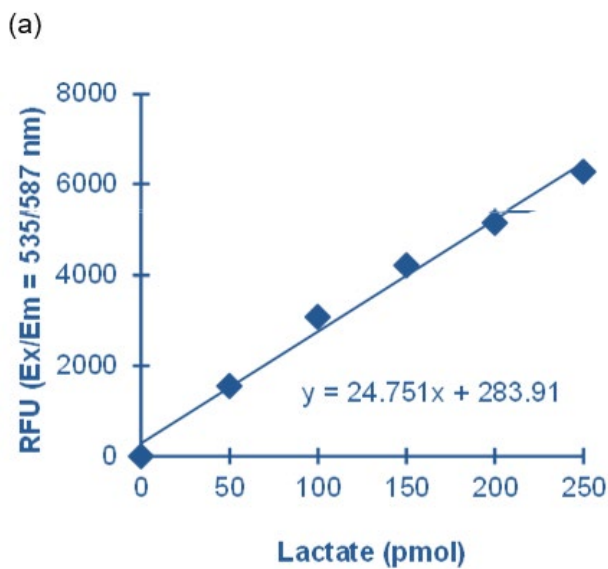
Lactate Assays

Assay Genie have created 4 highly sensitive assays for measuring lactate levels in a wide variety of sample types including a super sensitive fluorescent assay kit.

These assays enable the highly sensitive and reproducible detection of lactate from 96-well to 384-well high throughput formats.

Key Features

- Highly Sensitivity: down to as little 0.2µM per well on 96-well plates
- Versatile: Colorimetric or Fluorometric assay formats
- Flexible: compatible with a wide range of sample types
- Automatable: assays can be automated on high throughput robotic liquid handling systems in 96-well or 384-well formats



Super Sensitive Lactate Assay kit (#BN00862):

(a) Lactate Standard Curve

(b) Lactate levels in rat liver (1.2 µg), kidney (0.7 µg) & muscle (0.45 µg) & in human serum (0.5 µl) from 1:10 diluted serum)

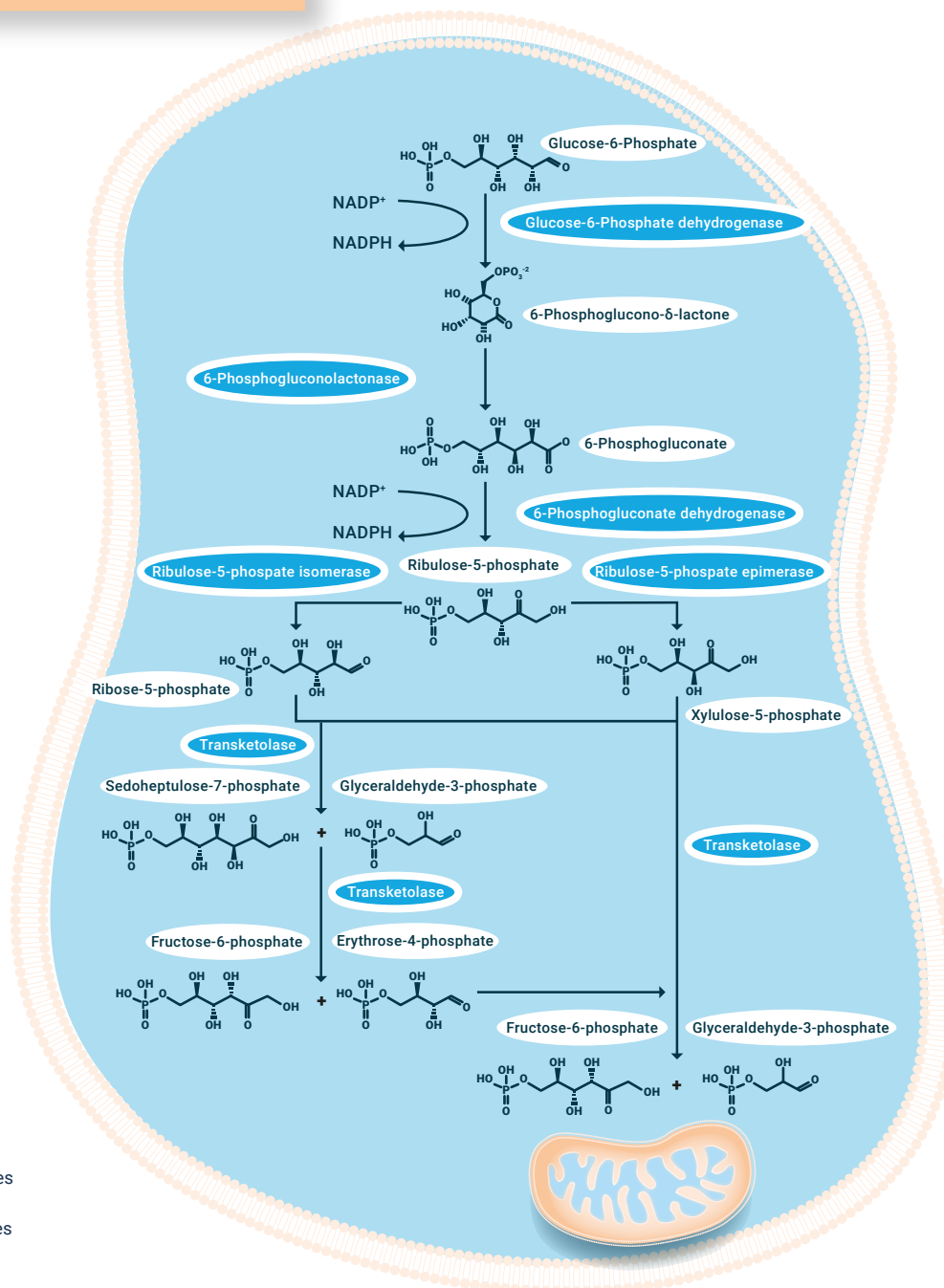
LACTATE ASSAYS					
ASSAY	CODE	READ-OUT	SENSITIVITY	SAMPLE TYPE	PACK SIZE
Lactate Fluorometric Assay Kit (Super Sensitive)	BN00862	Fluorometric	0.2 µM	Serum, Tissue, Cells	100 Assays
Lactate Colorimetric Assay Kit II	BN00851	Colorimetric	0.02 - 10 mM	Serum, Tissue, Cells, Media	100 Assays
Lactate Colorimetric / Fluorometric Assay Kit	BN00831	Colorimetric / Fluorometric	0.001-10 mM	Blood, Cells, Media	100 Assays
Lactate Colorimetric Assay Kit (384 Well)	BN01112	Colorimetric	0.5 to 5 mM	Blood, Cells, Media	384 Assays

Pentose Phosphate

Assay Genie have created a suite of over 10 assays for measuring metabolites and enzymes associated with the pentose phosphate pathway. These assays enable the highly sensitive and reproducible detection of enzymes & metabolites in a wide variety of sample types as well as novel inhibitor screening kits.

Key Features

- Highly Sensitivity: down to as little 1pmol well on 96-well plates
- Versatile: Colorimetric & Fluorometric assay formats
- Flexible: compatible with a wide range of sample types
- Automatable: most assays can be automated on high throughput robotic liquid handling systems in 96-well, 384-well and 1,536-well formats



- XXX** Enzymes
- XXX** Metabolites
- XXX** Coenzymes

Pentose Phosphate

METABOLITE

ASSAY	CODE	READ-OUT	SENSITIVITY	SAMPLE TYPE	PACK SIZE
Fructose-6-Phosphate Fluorometric Assay Kit	BN00913	Colorimetric	10 pmol	Tissue/Cell Lysate	100 Assays
Glucose-6-Phosphate Colorimetric Assay Kit	BN00881	Colorimetric	1000 pmol	Tissue/Cell Lysate	100 Assays
Glucose-6-Phosphate Fluorometric Assay Kit	BN00911	Fluorometric	5 pmol	Tissue/Cell Lysate	100 Assays
6-Phosphogluconic Acid (6-PGA) Assay Kit	BN00494	Colorimetric	1000 pmol	Tissue/Cell Lysate	100 Assays

ENZYMES

ASSAY	CODE	READ-OUT	SENSITIVITY	SAMPLE TYPE	PACK SIZE
Glucose-6-Phosphate Dehydrogenase Activity Assay Kit (Fluorometric)	BN00964	Fluorometric	1 μ U	Serum, Tissues	100 Assays
Glucose-6-Phosphate Dehydrogenase Activity Colorimetric Assay Kit	BN00970	Colorimetric	0.05 mU	Serum, Tissues	100 Assays
Glucose-6-Phosphate Dehydrogenase Inhibitor Screening Kit (Colorimetric)	BN00498	Colorimetric	N/A	Inhibitors	100 Assays
6-Phosphogluconate Dehydrogenase Activity Colorimetric Assay Kit	BN00769	Colorimetric	0.04 mU	Tissue/Cell Lysate	100 Assays

COENZYMES & OTHER ASSAYS

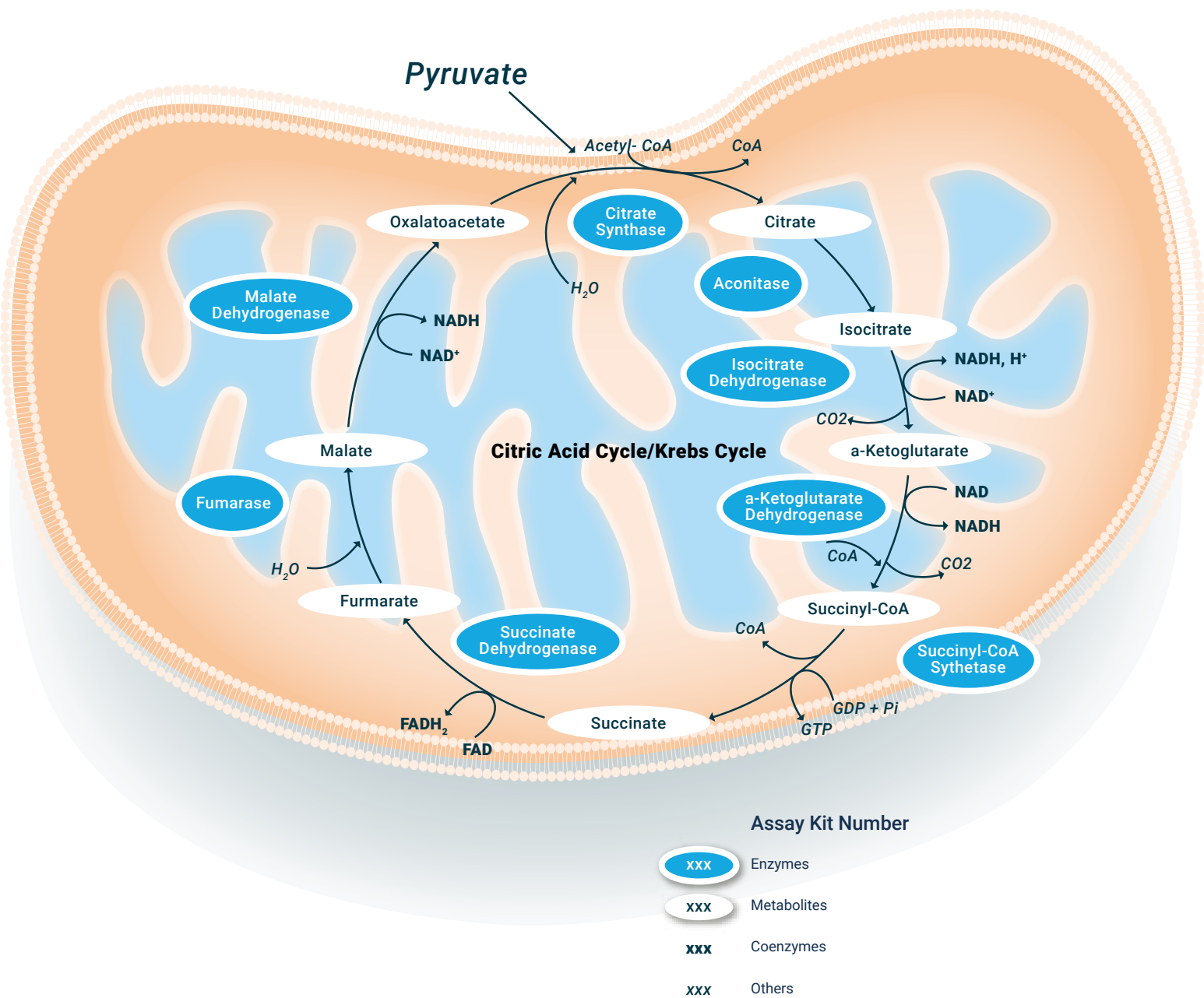
ASSAY	CODE	READ-OUT	SENSITIVITY	SAMPLE TYPE	PACK SIZE
NADP/NADPH Quantitation Colorimetric Kit	BN00611	Colorimetric	10 pmol	Tissue/Cell Lysate	100 Assays
NADPH Quantitation Fluorometric Assay Kit	BN00613	Fluorometric	1 pmol	Tissue/Cell Lysate	100 Assays

TCA Cycle

Assay Genie have created a suite of over 20 assays for measuring metabolites and enzymes involved in the TCA cycle. These assays enable the highly sensitive and reproducible detection of enzymes & metabolites in a wide variety of sample types.

Key Features

- Highly Sensitivity: down to as little 10pmol well on 96-well plates
- Versatile: Colorimetric & Fluorometric assay formats
- Flexible: compatible with a wide range of sample types
- Automatable: most assays can be automated on high throughput robotic liquid handling systems in 96-well, 384-well and 1,536-well formats



TCA Cycle

METABOLITE					
ASSAY	CODE	READ-OUT	SENSITIVITY	SAMPLE TYPE	PACK SIZE
Acetyl-CoA Fluorometric Assay Kit	BN00584	Fluorometric	0.01 pmol	Cells, tissues	100 Assays
Citrate Colorimetric / Fluorometric Assay Kit	BN00879	Colorimetric / Fluorometric	0.25 nmol	Cells, tissues	100 Assays
Fumarate Colorimetric Assay Kit	BN00857	Colorimetric	2.5 nmol	Cells, tissues	100 Assays
Isocitrate Colorimetric Assay Kit	BN00880	Colorimetric	2 nmol	Cells, tissues	100 Assays
Alpha-Ketoglutarate Colorimetric / Fluorometric Assay Kit	BN00901	Colorimetric / Fluorometric	1 nmol	Cells, tissues	100 Assays
Malate Colorimetric Assay Kit	BN00861	Colorimetric	1 nmol	Cells, tissues	100 Assays
Oxaloacetate Colorimetric / Fluorometric Assay Kit	BN00883	Colorimetric / Fluorometric	1 nmol	Cells, tissues	100 Assays
Succinate (Succinic Acid) Colorimetric Assay Kit	BN00873	Colorimetric	1 nmol	Cells, tissues	100 Assays

ENZYMES					
ASSAY	CODE	READ-OUT	SENSITIVITY	SAMPLE TYPE	PACK SIZE
Aconitase Activity Colorimetric Assay Kit	BN00936	Colorimetric	0.1 mU	Tissue, cells, PP	100 Assays
Citrate Synthase Activity Colorimetric Assay Kit	BN00585	Colorimetric	1 mU	Tissue, cells, PP	100 Assays
Fumarase Activity Colorimetric Assay Kit	BN00823	Colorimetric	2.5 mU	Tissue, cells, PP	100 Assays
Isocitrate Dehydrogenase Activity Colorimetric Assay Kit	BN00969	Colorimetric	0.01 mU	Tissue, cells, PP	100 Assays
Alpha-Ketoglutarate Dehydrogenase Activity Colorimetric Assay Kit	BN00902	Colorimetric	0.1 mU	Tissue, cells, PP	100 Assays
Malate Dehydrogenase Activity Colorimetric Assay Kit	BN00878	Colorimetric	0.5 mU	Tissue, cells, PP	100 Assays
Pyruvate Dehydrogenase (PDH) Activity Colorimetric Assay Kit	BN00903	Colorimetric	0.1 mU	Tissue, cells, PP	100 Assays
Succinyl-CoA Synthetase Activity Colorimetric Assay Kit	BN00824	Colorimetric	0.1 mU	Tissue, cells, PP	100 Assays
Succinate Dehydrogenase Activity Colorimetric Assay Kit	BN00884	Colorimetric	0.1 mU	Tissue, cells, PP	100 Assays

Energy Metabolism

COENZYMES & OTHER ASSAYS

ASSAY	CODE	READ-OUT	SENSITIVITY	SAMPLE TYPE	PACK SIZE
FAD Colorimetric / Fluorometric Assay Kit	BN00620	Colorimetric / Fluorometric	25 pmol	Tissue, cells, PP	100 Assays
NAD/NADH Quantitation Colorimetric Kit	BN00603	Colorimetric	10 pmol	Tissue, cells, serum, urine	100 Assays
NADP/NADPH Quantitation Colorimetric Kit	BN00611	Colorimetric	10 pmol	Tissue, cells, PP	100 Assays
Phosphate Assay Kit (Fluorometric)	BN00669	Fluorometric	25 pmol	Tissue, cells, PP	100 Assays
Phosphate Assay Kit (Fluorometric)	BN00669	Fluorometric	25 pmol	Tissue, cells, PP	100 Assays

COFACTORS & ENZYMES

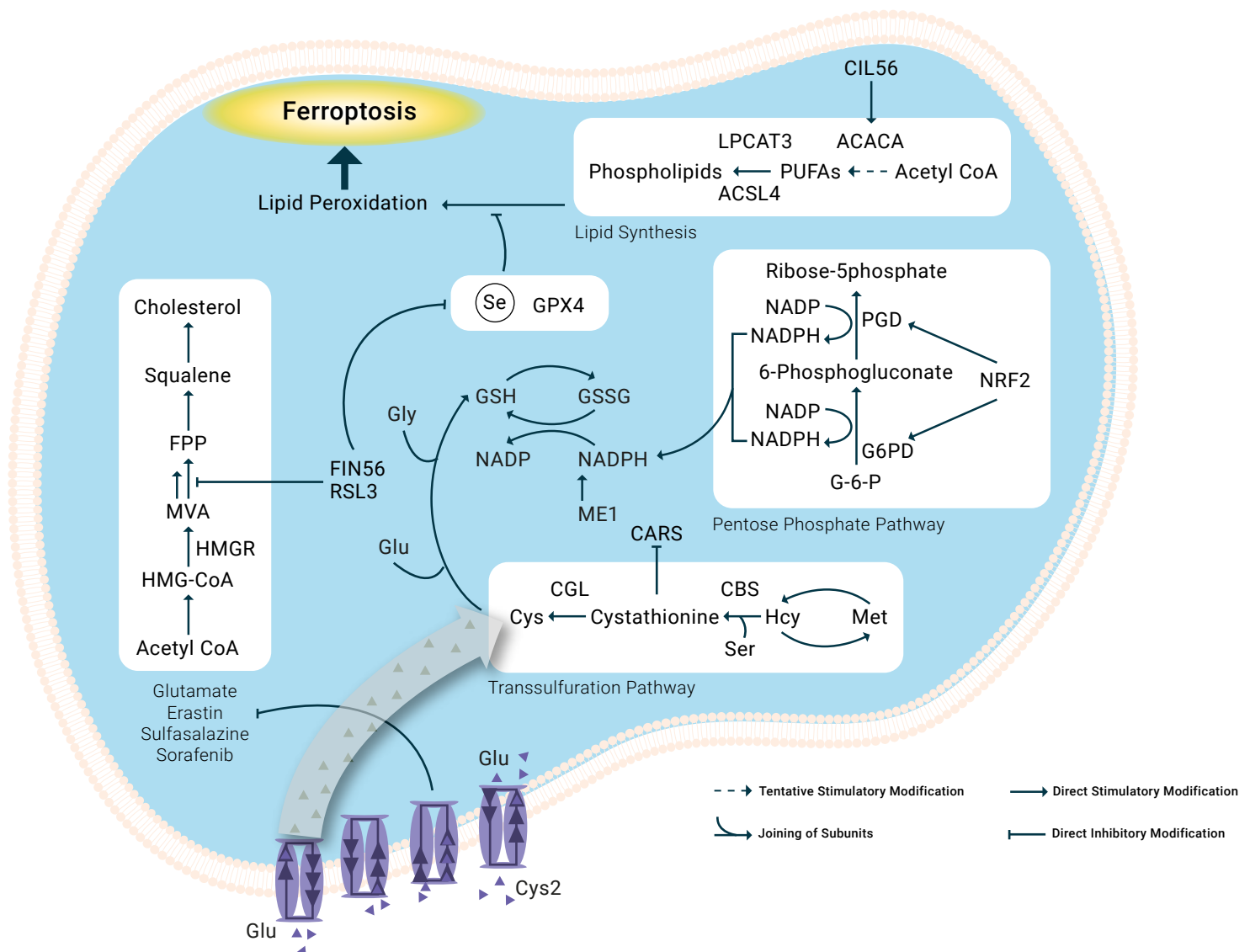
ASSAY	CODE	READ-OUT	SENSITIVITY	SAMPLE TYPE	PACK SIZE
ADP Colorimetric Assay Kit II	BN00619	Colorimetric	1000 pmol	Tissue, cells, Protein Prep.	100 Assays
ADP Colorimetric / Fluorometric Assay Kit	BN00618	Colorimetric / Fluorometric	100 pmol	Tissue, cells, Protein Prep.	100 Assays
ADP/ATP Ratio Bioluminescence Assay Kit	BN00522	Luminescence	<10 pmol	Cells, Protein Prep.	100 Assays
ATP Colorimetric / Fluorometric Assay Kit	BN00617	Colorimetric / Fluorometric	100 pmol	Tissue, cells, Protein Prep.	100 Assays
NADH Fluorometric Assay Kit	BN00604	Fluorometric	<5 pmol	Tissue, cells, Protein Prep.	100 Assays
NAD/NADH Quantitation Colorimetric Kit	BN00603	Colorimetric	10 pmol	Tissue, cells, serum, urine	100 Assays
NADP/NADPH Quantitation Colorimetric Kit	BN00611	Colorimetric	10 pmol	Tissue, cells, Protein Prep.	100 Assays

Ferroptosis

Assay Genie have created a suite of over 50 assays for measuring metabolites and enzymes involved in Ferroptosis. These assays enable the highly sensitive and reproducible detection of enzymes & metabolites in a wide variety of sample types.

Key Features

- Highly Sensitivity: down to as little 10pmol well on 96-well plates
- Versatile: Colorimetric & Fluorometric assay formats
- Flexible: compatible with a wide range of sample types
- Automatable: most assays can be automated on high throughput robotic liquid handling systems in 96-well, 384-well and 1,536-well formats



Ferroptosis

ACETYL CO-A

ASSAY	CODE	READ-OUT	PACK SIZE
Citrate Colorimetric/Fluorometric Assay Kit	BN00879	Colorimetric/Fluorometric	100 Assays
Coenzyme A (CoA) Colorimetric/Fluorometric Assay Kit	BN00630	Colorimetric/Fluorometric	100 Assays
HAT (H4) Activity Fluorometric Assay Kit	BN00602	Fluorometric	100 Assays
HAT Activity Fluorometric Assay Kit	BN00600	Fluorometric	100 Assays
L-Carnitine Colorimetric/Fluorometric Assay Kit	BN00866	Colorimetric/Fluorometric	100 Assays
p300 Inhibitor Screening Assay Kit (Fluorometric)	BN00610	Fluorometric	100 Assays
pCAF Inhibitor Screening Kit (Fluorometric)	BN00609	Fluorometric	100 Assays
Acetyl-CoA Fluorometric Assay Kit	BN00584	Fluorometric	100 Assays
Beta-Hydroxybutyrate (Beta-HB) Colorimetric Assay Kit	BN00856	Colorimetric	100 Assays

CHOLESTEROL

ASSAY	CODE	READ-OUT	PACK SIZE
Alanine Colorimetric/Fluorometric Assay Kit	BN00876	Colorimetric/Fluorometric	100 Assays
Alkaline Sphingomyelinase Activity Assay Kit (Colorimetric)	BN01145	Colorimetric	100 Assays
CETP Activity Fluorometric Assay Kit II	BN00822	Fluorometric	100 Assays
CETP Inhibitor Screening Kit (Fluorometric) II	BN00821	Fluorometric	100 Assays
Cholesterol Detection Kit (cell-based)	BN00815	Fluorometric	100 Assays
Cholesterol Efflux Fluorometric Assay Kit (cell-based)	BN00811	Fluorometric	100 Assays
Total Cholesterol & Cholesteryl Ester Colorimetric Assay Kit (384-Well)	BN01117	Colorimetric	100 Assays
Triglyceride Quantification Colorimetric Assay Kit (384-well)	BN01113	Colorimetric/Fluorometric	100 Assays
HDL and LDL/VLDL Quantification Colorimetric/Fluorometric Kit	BN00837	Colorimetric/Fluorometric	100 Assays
HDL Uptake Assay Kit (Fluorometric)	BN00814	Fluorometric	100 Assays
HMG-CoA Reductase Activity/Inhibitor Screening Kit	BN00816	Colorimetric	100 Assays
Lipid (Oil Red O) staining Kit	BN00809	Microscopy	100 Assays
Acetyl-CoA Fluorometric Assay Kit	BN00584	Fluorometric	100 Assays
PLTP Activity Fluorometric Assay Kit II	BN00820	Fluorometric	100 Assays
Total Bile Acids (TBA) Assay Kit (Colorimetric)	BN00487	Colorimetric	100 Assays
Total Cholesterol and Cholesteryl Ester Colorimetric/Fluorometric Assay Kit	BN00828	Colorimetric/Fluorometric	100 Assays
Total Cholesterol and Cholesteryl Ester Colorimetric Assay Kit II	BN00847	Colorimetric	100 Assays

Ferroptosis

CYSTATHIONINE

ASSAY	CODE	READ-OUT	PACK SIZE
Cystathionine Beta Synthase Activity Assay Kit (Fluorometric)	BN01155	Fluorometric	100 Assays
Cystathionine Beta Synthase Inhibitor Screening Kit (Fluorometric)	BN00919	Fluorometric	100 Assays

CYSTEINE

ASSAY	CODE	READ-OUT	PACK SIZE
Cysteine Assay Kit (Fluorometric)	BN00788	Fluorometric	100 Assays

GLUTAMATE

ASSAY	CODE	READ-OUT	PACK SIZE
Alanine Aminotransferase (ALT or SGPT) Activity Colorimetric/Fluorometric Assay Kit	BN00965	Colorimetric/Fluorometric	100 Assays
Alanine Colorimetric/Fluorometric Assay Kit	BN00876	Colorimetric/Fluorometric	100 Assays
Alpha-Ketoglutarate Colorimetric/Fluorometric Assay Kit	BN00901	Colorimetric/Fluorometric	100 Assays
Aspartate Aminotransferase (AST or SGOT) Activity Colorimetric Assay Kit	BN00966	Colorimetric	100 Assays
Alanine Aminotransferase (ALT or SGPT) Activity Assay Kit (384-Well)	BN01105	Colorimetric/Fluorometric	100 Assays
Glutamate Colorimetric Assay Kit	BN00853	Colorimetric	100 Assays
Glutamate Dehydrogenase Activity Colorimetric Assay Kit	BN00948	Colorimetric	100 Assays
Glutamine Colorimetric Assay Kit	BN00786	Colorimetric	100 Assays
Tyrosine Aminotransferase Activity Assay Kit (Fluorometric)	BN00722	Fluorometric	100 Assays

GLUTATHIONE

ASSAY	CODE	READ-OUT	PACK SIZE
Glutathione Detection Kit (Blue Fluorescence)	BN00735	Fluorometric	100 Assays
GSH/GSSG Assay Kit	BN00532	Fluorometric	100 Assays
Glutathione Colorimetric Assay Kit	BN00529	Colorimetric	100 Assays
Glutathione Fluorometric Assay Kit	BN00517	Fluorometric	100 Assays
Glutathione Peroxidase Activity Colorimetric Assay Kit	BN00975	Colorimetric	100 Assays
Glutathione Reductase Activity Colorimetric Assay Kit	BN00974	Colorimetric	100 Assays
GST Activity Assay Kit	BN00531	Colorimetric	100 Assays
GST Fluorometric Activity Assay Kit	BN00528	Fluorometric	100 Assays
Methylglyoxal Assay Kit (Colorimetric)	BN00731	Colorimetric	100 Assays
Reduced Glutathione (GSH) Assay Kit (Fluorometric)	BN00956	Fluorometric	100 Assays
GSH Assay Kit	BN00700	Colorimetric	100 Assays

Ferroptosis

GLYCINE

ASSAY	CODE	READ-OUT	PACK SIZE
Glycine Assay Kit (Fluorometric)	BN00817	Fluorometric	100 Assays

G-6-P

ASSAY	CODE	READ-OUT	PACK SIZE
Glucose-6-Phosphate Colorimetric Assay Kit	BN00881	Colorimetric	100 Assays
Glucose-6-Phosphate Fluorometric Assay Kit	BN00911	Fluorometric	100 Assays

HMG-COA

ASSAY	CODE	READ-OUT	PACK SIZE
HMG-CoA Reductase Activity/Inhibitor Screening Kit (Colorimetric)	BN00816	Colorimetric	100 Assays

HOMOCYSTEINE

ASSAY	CODE	READ-OUT	PACK SIZE
Homocysteine Assay Kit (Fluorometric)	BN00763	Fluorometric	100 Assays

LIPID PEROXIDATION

ASSAY	CODE	READ-OUT	PACK SIZE
Lipid Peroxidation (MDA) Colorimetric/Fluorometric Assay Kit	BN00955	Colorimetric/Fluorometric	100 Assays
Paraoxonase 1 (PON1) Activity Assay Kit (Fluorometric)	BN01156	Fluorometric	100 Assays

ME1

ASSAY	CODE	READ-OUT	PACK SIZE
Malate Dehydrogenase Activity Assay Kit (Fluorometric)	BN00768	Fluorometric	100 Assays
Malate Dehydrogenase Activity Colorimetric Assay Kit	BN00878	Colorimetric	100 Assays

METHIONINE

ASSAY	CODE	READ-OUT	PACK SIZE
Methionine Assay Kit (Fluorometric)	BN00684	Fluorometric	100 Assays

PHOSPHOGLUCONATE

ASSAY	CODE	READ-OUT	PACK SIZE
6-Phosphogluconic Acid (6-PGA) Assay Kit (Colorimetric)	BN00494	Colorimetric	100 Assays
6-Phosphogluconate Dehydrogenase Activity Colorimetric Assay Kit	BN00769	Colorimetric	100 Assays

Ferroptosis

NADP+

ASSAY	CODE	READ-OUT	PACK SIZE
6-Phosphogluconate Dehydrogenase Activity Colorimetric Assay Kit	BN00769	Colorimetric	100 Assays
Ammonia Colorimetric Assay Kit	BN00632	Colorimetric	100 Assays
Cytochrome P450 Reductase (CPR) Activity Kit (Colorimetric)	BN00924	Colorimetric	100 Assays
Dihydrofolate Reductase Activity Kit (Colorimetric)	BN00511	Colorimetric	100 Assays
Dihydrofolate Reductase Inhibitor Screening Kit (Colorimetric)	BN00512	Colorimetric	100 Assays
Aldo-keto Reductase Activity Assay Kit (Colorimetric)	BN01063	Colorimetric	100 Assays
NAD ⁺ /NADH Colorimetric Assay Kit (384-well)	BN01118	Colorimetric	100 Assays
Glucose-6-Phosphate Dehydrogenase Activity Colorimetric Assay Kit	BN00970	Colorimetric	100 Assays
Glucose-6-Phosphate Dehydrogenase Inhibitor Screening Kit (Colorimetric)	BN00498	Colorimetric	100 Assays
Glutathione Peroxidase Activity Colorimetric Assay Kit	BN00975	Colorimetric	100 Assays
IDH1 R132H Mutant Inhibitor Screening Kit (Colorimetric)	BN00727	Colorimetric	100 Assays
Isocitrate Colorimetric Assay Kit	BN00880	Colorimetric	100 Assays
Isopropanol Dehydrogenase Activity Assay Kit (Colorimetric)	BN00922	Colorimetric	100 Assays
Microsome Isolation Kit	BN00514	N/A	100 Assays
Mutant Isocitrate Dehydrogenase (Mutant IDH) Activity Assay Kit (Colorimetric)	BN01143	Colorimetric	100 Assays
NAD/NADH Quantitation Colorimetric Kit	BN00603	Colorimetric	100 Assays
NADP/NADPH Quantitation Colorimetric Kit	BN00611	Colorimetric	100 Assays
Glucose-6-Phosphate Dehydrogenase Activity Assay Kit (Fluorometric)	BN00964	Fluorometric	100 Assays
NADPH Quantitation Fluorometric Assay Kit	BN00613	Fluorometric	100 Assays
Thioredoxin Reductase Activity Colorimetric Assay Kit	BN00976	Colorimetric	100 Assays

PUFAs

ASSAY	CODE	READ-OUT	PACK SIZE
PPAR gamma Ligand Screening/Characterization Assay Kit (Fluorometric)	BN00680	Fluorometric	100 Assays

SERINE

ASSAY	CODE	READ-OUT	PACK SIZE
O-GalNAc Modified Glycoprotein Assay Kit (FACS/Microscopy, Green Fluorescence)	BN00790	Fluorometric	100 Assays
Phospho-p53 (Ser15) Translocation Assay Kit (Cell-Based)	BN01126	Colorimetric	50 Assays

Ferroptosis

PHOSPHOLIPID

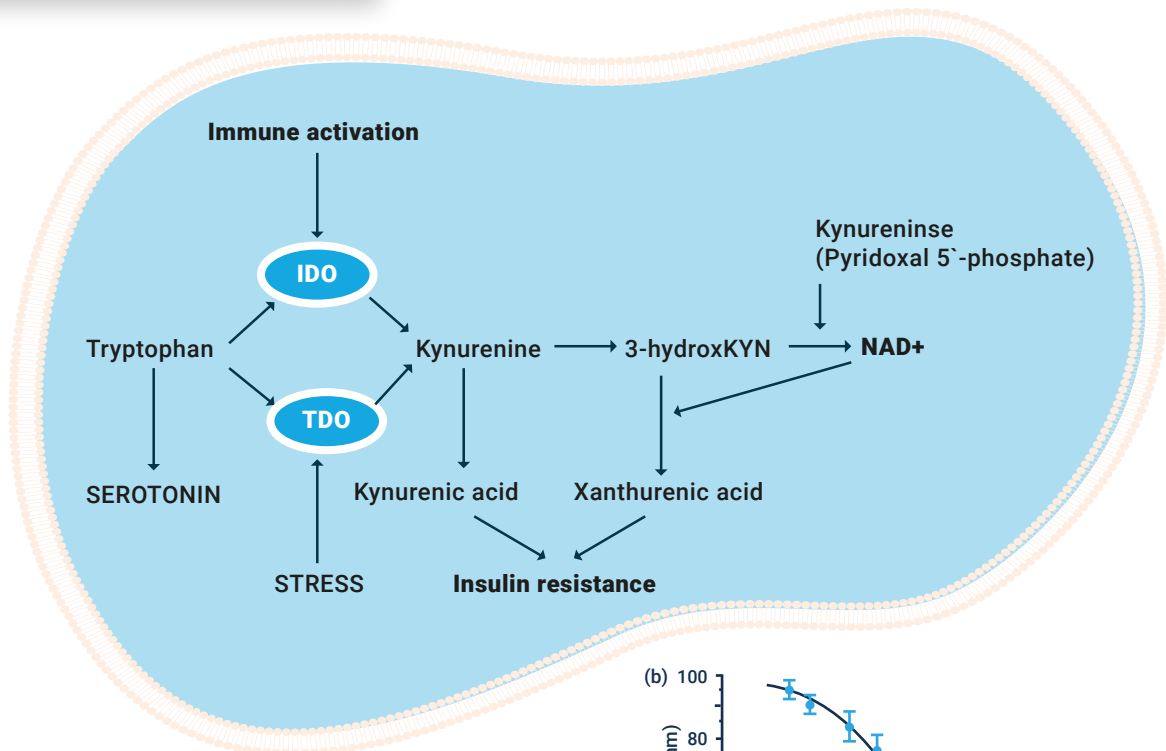
ASSAY	CODE	READ-OUT	PACK SIZE
Cardiolipin Assay Kit (Fluorometric)	BN01107	Fluorometric	100 Assays
Choline Kinase (ChoK) Activity Assay Kit (Fluorometric)	BN00713	Fluorometric	100 Assays
Global Phospholipid Synthesis Assay Kit (FACS/Microscopy), Red Fluorescence	BN00937	Fluorometric	100 Assays
Glycerophosphorylcholine Assay Kit (Colorimetric/Fluorometric)	BN00678	Colorimetric/Fluorometric	100 Assays
PAF Acetylhydrolase (PAF-AH) Inhibitor Screening Kit (Colorimetric)	BN00979	Colorimetric	100 Assays
PAF Acetylhydrolase Activity Assay Kit (Colorimetric)	BN00978	Colorimetric	100 Assays
Phosphatidylcholine Colorimetric/Fluorometric Assay Kit	BN00805	Colorimetric/Fluorometric	100 Assays
Phosphatidylethanolamine Assay Kit (Fluorometric)	BN00730	Fluorometric	100 Assays
Phospholipase A2 Activity Assay Kit (Fluorometric)	BN00653	Fluorometric	100 Assays
Phospholipase D (PLD) Activity Colorimetric Assay Kit	BN00944	Colorimetric	100 Assays
Phospholipid Assay Kit (Colorimetric/Fluorometric)	BN00615	Colorimetric/Fluorometric	100 Assays
Phosphatidic Acid Assay Kit (Fluorometric)	BN00963	Fluorometric	100 Assays
PLTP Activity Fluorometric Assay Kit II	BN00820	Fluorometric	100 Assays
PLTP Inhibitor Drug Screening Kit (Fluorometric)	BN00829	Fluorometric	100 Assays

Tryptophan

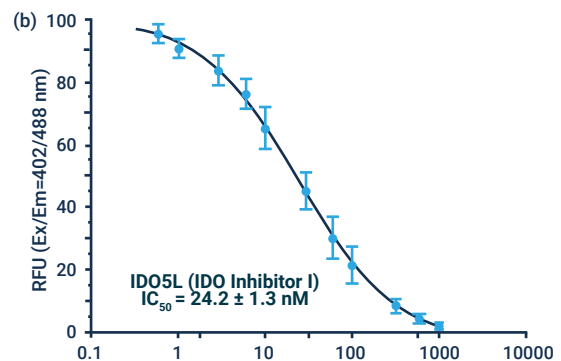
Assay Genie have created 3 unique assays for measuring IDO1 activity as well as the quantification of tryptophan. These assays enable the highly sensitive and reproducible detection both IDO1 & Tryptophan especially for scientists involved in immunometabolism.

Key Features

- Highly Sensitivity: down to as little 0.2 mU well on 96-well plates
- Versatile: No wash, fluorometric assay formats
- Flexible: Inhibitor screening assay format available
- Automatable: most assays can be automated on high throughput robotic liquid handling systems in 96-well, 384-well and 1,536-well formats



IDO1 Inhibitor Screening kit (BN01134): Dose-response curve of IDO1 inhibition by the IDO1 Inhibitor IDO5L. IC₅₀ value (24.2 ± 1.3 nM) by 4-PL curve fitting.



TRYPTOPHAN & IDO1 ASSAY KITS

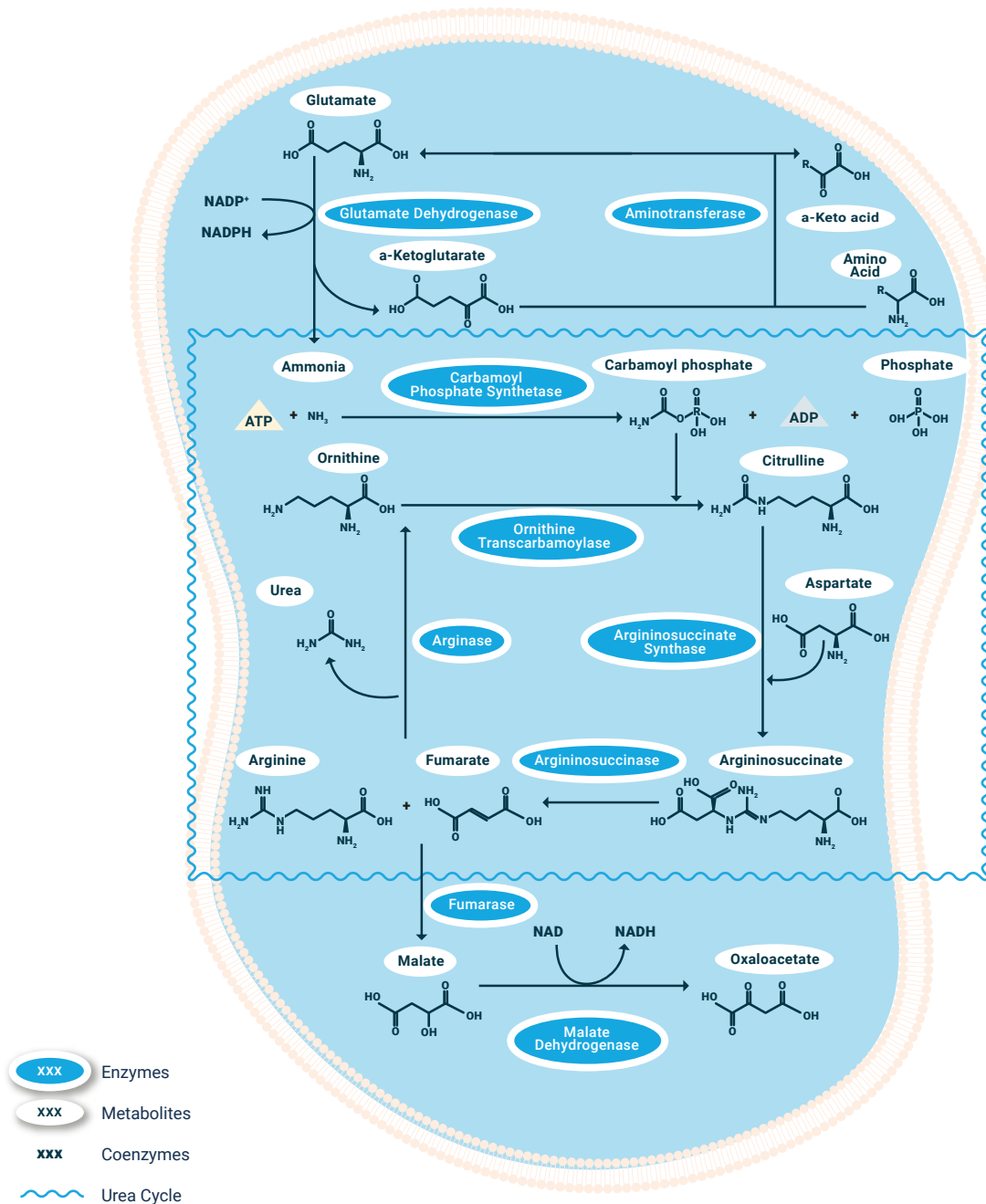
ASSAY	CODE	READ-OUT	PACK SIZE
IDO1 Activity Assay Kit	BN01131	Fluorometric	100 assays
IDO1 Inhibitor Screening Kit	BN01134	Fluorometric	100 assays
Tryptophan Assay Kit (Fluorometric)	BN00787	Fluorometric	100 assays

Urea

Assay Genie have created a suite of over 25 assays for measuring metabolites and enzymes involved in Urea cycle and associated pathways. These assays enable the highly sensitive and reproducible detection of enzymes & metabolites in a wide variety of sample types.

Key Features

- Highly Sensitivity: down to as little 1pmol well on 96-well plates
- Versatile: Colorimetric & Fluorometric assay formats
- Flexible: compatible with a wide range of sample types
- Automatable: most assays can be automated on high throughput robotic liquid handling systems in 96-well, 384-well and 1,536-well formats



Urea

METABOLITE					
ASSAY	CODE	READ-OUT	SENSITIVITY	SAMPLE TYPE	PACK SIZE
Alpha-Ketoglutarate Colorimetric / Fluorometric Assay Kit	BN00901	Colorimetric / Fluorometric	0.1 nmol	Cell/Tissue lysate	100 Assays
Ammonia Colorimetric Assay Kit	BN00632	Colorimetric	1 nmol	Urine, cell lysate	100 Assays
Ammonia Colorimetric Assay Kit II	BN00704	Colorimetric	0.5 nmol	Cell/Tissue lysate	100 Assays
Aspartate Colorimetric / Fluorometric Assay Kit	BN00782	Colorimetric / Fluorometric	0.1 nmol	Serum, tissue lysate	100 Assays
Fumarate Colorimetric Assay Kit	BN00857	Colorimetric	1 nmol	Cell/Tissue lysate	100 Assays
Glutamate Colorimetric Assay Kit	BN00853	Colorimetric	1 nmol	Serum, foodstuff	100 Assays
Malate Colorimetric Assay Kit	BN00861	Colorimetric	1 nmol	Serum, lysates	100 Assays
Oxaloacetate Colorimetric / Fluorometric Assay Kit	BN00883	Colorimetric / Fluorometric	1 nmol	Serum, lysates	100 Assays
Phosphate Assay Kit (Fluorometric)	BN00669	Fluorometric	0.1 nmol	Serum, lysates	100 Assays
Phosphate Colorimetric Assay Kit	BN00663	Colorimetric	0.5 nmol	Serum, urine	500 Assays
Urea Colorimetric Assay Kit	BN00637	Colorimetric	0.5 nmol	Serum, urine	100 Assays
Urea Colorimetric Assay Kit II	BN00638	Colorimetric	10 nmol	Urine, serum, lysates	100 Assays

ENZYMES					
ASSAY	CODE	READ-OUT	SENSITIVITY	SAMPLE TYPE	PACK SIZE
Alanine Aminotransferase (ALT or SGPT) Activity Colorimetric / Fluorometric Assay Kit	BN00965	Colorimetric / Fluorometric	10 mU	Serum, lysates	100 Assays
Arginase Activity Colorimetric Assay Kit	BN00968	Colorimetric	1 mU	Cell/Tissue lysate	100 Assays
Arginase I (ARG1) Inhibitor Screening Kit (Colorimetric)	BN00796	Colorimetric	N/A	NA Inhibitors	100 Assays
Aspartate Aminotransferase (AST or SGOT) Activity Colorimetric Assay Kit	BN00966	Colorimetric	10 mU	Serum, lysates	100 Assays
Fumarase Activity Colorimetric Assay Kit	BN00823	Colorimetric	0.1 mU	Cell/Tissue lysate	100 Assays
Glutamate Dehydrogenase Activity Colorimetric Assay Kit	BN00948	Colorimetric	0.01 mU	Cell/Tissue lysate	100 Assays
Malate Dehydrogenase Activity Colorimetric Assay Kit	BN00878	Colorimetric	0.5 mU	Cell/Tissue lysate	100 Assays
Malate Dehydrogenase Activity Assay Kit (Fluorometric)	BN00768	Fluorometric	0.04 mU	Cell/Tissue lysate	100 Assays
Tyrosine Aminotransferase Activity Assay Kit (Fluorometric)	BN00722	Fluorometric	4 μ U	Cell/Tissue lysate	100 Assays

Urea

COENZYMES & OTHER ASSAYS

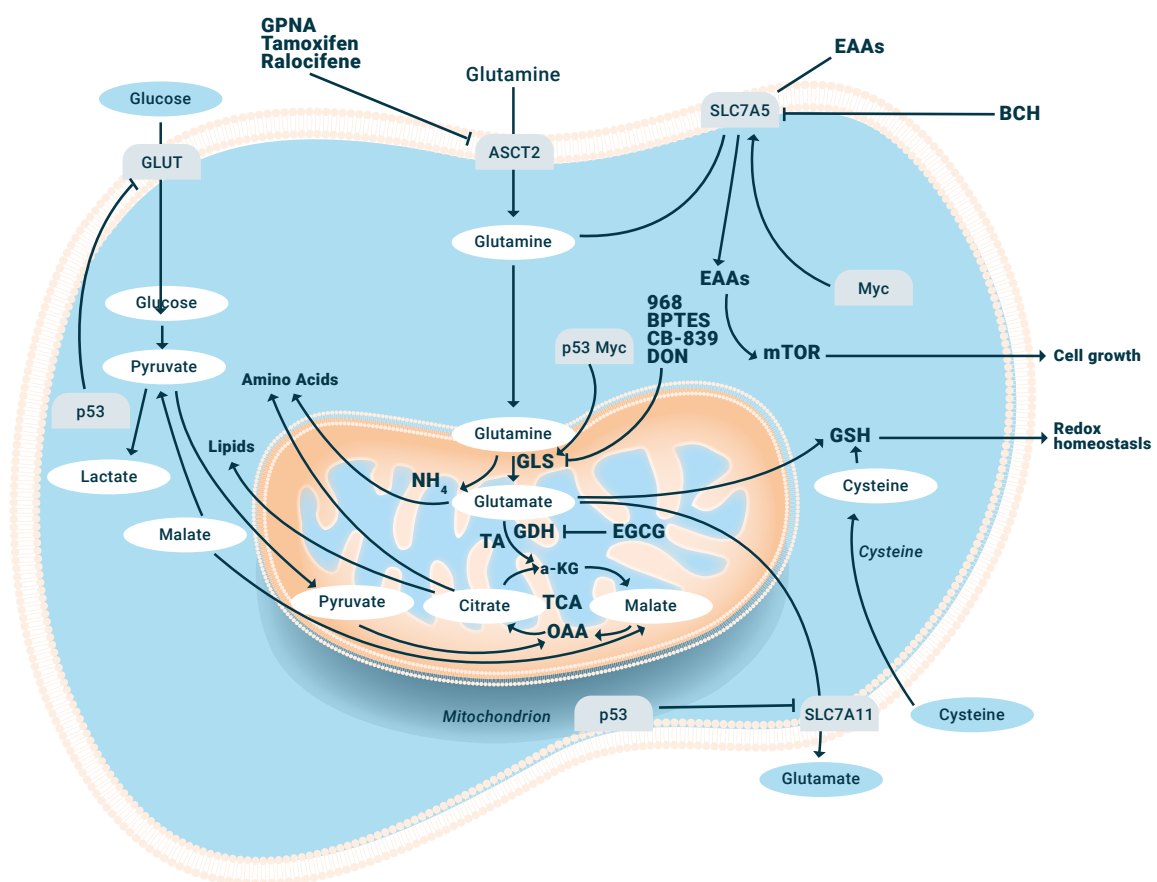
ASSAY	CODE	READ-OUT	SENSITIVITY	SAMPLE TYPE	PACK SIZE
ADP Colorimetric Assay Kit II	BN00619	Colorimetric	1000 pmol	Tissue, cells, PP	100 Assays
ADP Colorimetric/Fluorometric Assay Kit	BN00618	Colorimetric / Fluorometric	100 pmol	Tissue, cells, PP	100 Assays
ATP Colorimetric/Fluorometric Assay Kit	BN00617	Colorimetric / Fluorometric	100 pmol	Tissue, cells, PP	100 Assays
GenieGlow ADP/ATP Ratio Assay Kit	BN00522	Luminescence	< 10 pmol	Cells, PP	200 Assays
NADH Fluorometric Assay Kit	BN00604	Fluorometric	< 0.5 pmol	Tissue, cells, PP	100 Assays
NAD/NADH Quantitation Colorimetric Kit	BN00603	Colorimetric	10 pmol	Tissue, cells, serum, urine	100 Assays
NADP/NADPH Quantitation Colorimetric Kit	BN00611	Colorimetric	10 pmol	Tissue, cells, PP	100 Assays

Glutamine

Assay Genie have created a suite of over 25 assays for measuring metabolites and enzymes involved in Glutamine metabolism and associated pathways. These assays enable the highly sensitive and reproducible detection of enzymes & metabolites in a wide variety of sample types.

Key Features

- Highly Sensitivity: down to as little 1pmol well on 96-well plates
- Versatile: Colorimetric & Fluorometric assay formats
- Flexible: compatible with a wide range of sample types
- Automatable: most assays can be automated on high throughput robotic liquid handling systems in 96-well, 384-well and 1,536-well formats



GLUTAMINE ASSAY KITS

ASSAY	CODE	READ-OUT	PACK SIZE
Glutamine Colorimetric Assay Kit	BN00786	Colorimetric	100 Assays
Nitrite Assay Kit (Griess Reagent)	BN00775	Colorimetric	1000 Assays
Nitric Oxide Colorimetric Assay Kit	BN00530	Colorimetric	200 Assays
Nitric Oxide Fluorometric Assay Kit	BN00518	Fluorometric	200 Assays
Nitric Oxide Cell-Based HTS Assay Kit	BN01137	Fluorometric	100 Assays

Amino Acids

AMINO ACIDS				
ASSAY	CODE	READ-OUT	SAMPLE TYPE	PACK SIZE
Alanine Colorimetric / Fluorometric Assay Kit	BN00876	Colorimetric / Fluorometric	Serum, cells, tissues	100 Assays
Aspartate Colorimetric / Fluorometric Assay Kit	BN00782	Colorimetric / Fluorometric	Serum, cells, tissues	100 Assays
Branched Chain Amino Acid (Leu/Ile/Val) Colorimetric Assay Kit	BN00794	Colorimetric / Fluorometric	Serum, cells, tissues	100 Assays
Cysteine Assay Kit (Fluorometric)	BN00788	Fluorometric	Serum, cells, tissues	100 Assays
Glutamate Colorimetric Assay Kit	BN00853	Colorimetric	Serum, cells, tissues, food	100 Assays
Glutamine Colorimetric Assay Kit	BN00786	Colorimetric	Serum, cells, tissues, urine	100 Assays
Glycine Assay Kit (Fluorometric)	BN00817	Fluorometric	Serum, cells, tissues, urine, saliva	100 Assays
Histamine Assay Kit (Colorimetric)	BN00737	Colorimetric	Meat products, meat, yogurt, cheese	100 Assays
Homocysteine Assay Kit (Fluorometric)	BN00763	Fluorometric	Human or animal plasma or serum	100 Assays
Hydroxyproline Colorimetric Assay Kit	BN00785	Colorimetric	Tissues, urine	100 Assays
Hydroxyproline Assay Kit	BN00499	Colorimetric	Tissues, urine	100 Assays
Methionine Assay Kit (Fluorometric)	BN00684	Fluorometric	Serum, plasma, cells, tissues	100 Assays
Phenylalanine Fluorometric Assay Kit	BN00801	Fluorometric	Serum, cells, tissues	100 Assays
Phenylalanine Assay Kit (Colorimetric)	BN00718	Colorimetric	Cells, tissue lysates, serum	100 Assays
Sarcosine Colorimetric / Fluorometric Assay Kit	BN00860	Colorimetric / Fluorometric	Serum, cells, tissues	100 Assays
DL-Serine Assay Kit (Fluorometric)	BN00958	Fluorometric	Serum, cells, tissues, CSF	100 Assays
Taurine Assay Kit (Colorimetric)	BN01146	Colorimetric	Urine, beverages	100 Assays
Threonine Assay Kit (Fluorometric)	BN00699	Fluorometric	Serum, cells, tissues, CSF	100 Assays
Total D-Amino Acid Assay Kit (Fluorometric)	BN00687	Fluorometric	Biological fluids, animal tissues	100 Assays
L-Amino Acid Quantitation Colorimetric / Fluorometric Kit	BN00863	Colorimetric / Fluorometric	Serum, cells, tissues	100 Assays
Tryptophan Assay Kit (Fluorometric)	BN00787	Fluorometric	Serum	100 Assays
Tyrosine Colorimetric Assay Kit	BN00802	Colorimetric	Tissues, cells, serum, urine	100 Assays

Notes



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