

Center for Resources in Integrative Biology / Molecular Determinants Core

Research Use Only Targeted Assays
(Include lower limits of detection and linear dynamic range)

Targeted Assays (by method):

List of compounds for PFPP column method	
Glycolytic system	Organic acids
Lactic acid	4-Aminobutyric acid
Pyruvic acid	Adenylsuccinic acid
	Argininosuccinic acid
TCA cycle	
2-Ketoglutaric acid	Cholic acid
Aconitic acid	Creatine
Citric acid	Nicotinic acid
Fumaric acid	Ophthalmic acid
Isocitric acid	Orotic acid
Malic acid	Pantothenic acid
Succinic acid	Taurocholic acid
	Uric acid
Amino acids	Nucleosides and Nucleotides
4-Hydroxyproline	Adenine
Alanine	Cytosine
Arginine	Guanine
Asparagine	Thymine
Aspartic acid	Uracil
Asymmetric dimethylarginine	Xanthine
Citrulline	Adenosine
Cystine	Cytidine
Dimethylglycine	Guanosine
Glutamic acid	Inosine
Glutamine	Thymidine
Glycine	Uridine
Histidine	Adenosine 3',5'-cyclic monophosphate
Homocystine	Adenosine monophosphate
Isoleucine	Cytidine 3',5'-cyclic monophosphate
Leucine	Cytidine monophosphate
Lysine	Guanosine 3',5'-cyclic monophosphate
Methionine sulfoxide	Guanosine monophosphate
Ornithine	Thymidine monophosphate
Phenylalanine	
Proline	Co-enzymes
Serine	FAD
Symmetric dimethylarginine	FMN
Threonine	NAD
Tryptophan	
Tyrosine	
Valine	
Methylation and Transsulfuration cycle	Others
Cystathionine	2-Aminobutyric acid
Cysteine	Acetylcarnitine
Homocysteine	Acetylcholine
Methionine	Allantoin
5-Glutamylcysteine	Carnitine
Glutathione	Carnosine
Oxidized glutathione	Choline
	Citicoline

S-Adenosylhomocysteine S-Adenosylmethionine	Creatinine Cysteamine Dopa Dopamine Epinephrine Histamine Hypoxanthine Kynurenine Niacinamide Norepinephrine Serotonin
	Internal STDs
	2-Morpholinoethanesulfonic acid Methionine sulfone

Ion Pairing

List of compounds for ion pair method	
Glycolytic system	Nucleotides
2,3-Bisphosphoglyceric acid 3-Phosphoglyceric acid (2-Phosphoglyceric acid) Dihydroxyacetone phosphate Fructose 1,6-bisphosphate Glucose 1-phosphate Glucose 6-phosphate Glycerol 3-phosphate Phosphoenolpyruvic acid Pyruvic acid	Adenosine 3',5'-cyclic monophosphate Adenosine diphosphate Adenosine monophosphate Adenosine triphosphate Cytidine diphosphate Cytidine monophosphate Cytidine triphosphate Guanosine 3',5'-cyclic monophosphate Guanosine diphosphate Guanosine monophosphate Guanosine triphosphate Thymidine diphosphate Thymidine monophosphate Thymidine triphosphate Uridine diphosphate Uridine monophosphate Uridine triphosphate
Co-enzyme	Pentose-phosphate pathway
NAD NADH NADP NADPH	6-Phosphogluconic acid Erythrose 4-phosphate Ribose 5-phosphate Ribulose 5-phosphate Sedoheptulose 7-phosphate
TCA cycle	Internal STDs
Acetyl coenzyme A Succinyl coenzyme A	2-Morpholinoethanesulfonic acid Methionine sulfone
Amino acids	
Alanine Arginine Asparagine Aspartic acid Cysteine Glutamic acid Glutamine Glycine Histidine Lysine	

Methionine Phenylalanine Serine Threonine Tryptophan Tyrosine	
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