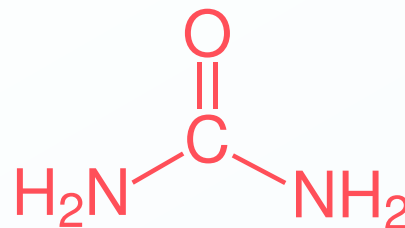




Kidney Function Discovery Panel

There is a pressing need for more comprehensive and accessible data on kidney disease epidemiology, progression, and risk factors. Research into novel biomarkers for early detection and monitoring of kidney disease is essential to enable timely intervention and slow disease progression.

The Kidney Function Discovery Panel analyzes 82 metabolites associated with the biochemical processes that affect kidney function to help researchers differentiate the diverse spectrum of kidney disease.



Applications

- ▶ Renal and Urological Disorders
- ▶ Oncology

Disclaimer: This method is for Research Use Only and is not to be used for diagnostic purposes.



Metabolite List

Amino Acids and Derivatives33

1-ribosyl-imidazoleacetate
 2,3-dihydroxy-5-methylthio-4-pentenoate (DMTPA)
 4-hydroxyphenylacetylglutamine
 6-bromotryptophan
 alanine
 C-glycosyltryptophan
 citrulline
 creatinine
 gamma-carboxyglutamate
 homocitrulline
 homocysteine
 hydroxyasparagine
 isoleucine
 kynurenine
 leucine
 methionine sulfoxide
 N,N,N-trimethyl-alanylproline betaine (TMAP)
 N-acetylaniline
 N-acetylserine
 N-acetylthreonine
 N-carbamoylvaline
 N-formylmethionine
 ornithine
 phenylacetylglutamate
 phenylalanylproline
 phenylacetylglutamine
 threonine
 tryptophan
 tyramine
 tyrosine
 urea
 valine
 vanillylmandelate (VMA)

Carbohydrate Metabolism 8

5-methylthioribose
 arabitol/xylitol
 arabonate/xylonate
 erythritol
 erythronate
 gluconate
 gulonate
 myo-inositol

Lipid Metabolism..... 7

1-palmitoyl-2-linoleoyl-GPC (16:0/18:2)
 1-palmitoyl-2-oleoyl-GPC (16:0/18:1)
 1-palmitoyl-GPC (16:0)
 3-carboxy-4-methyl-5-propyl-2-furanpropanoate (CMPF)
 3-methyladipate
 glycochenodeoxycholate
 palmitoyl sphingomyelin (d18:1/16:0)

Microbial Contributed Metabolites14

3-hydroxyhippurate
 3-indoxyl sulfate
 4-ethylphenylsulfate
 4-hydroxyhippurate
 4-hydroxyphenylacetate
 benzoate
 hippurate
 imidazole propionate
 indoleacetate
 indolelactate
 indolepropionate
 p-cresol sulfate
 phenylacetate
 trimethylamine N-oxide

Nicotinamide Metabolism 3

1-methylnicotinamide
 N1-methyl-2-pyridone-5-carboxamide
 nicotinamide N-oxide

Nucleotide Metabolism..... 8

5,6-dihydrouridine
 allantoin
 hypoxanthine
 N1-methylinosine
 N2,N2-dimethylguanosine
 N6-carbamoylthreonyladenosine
 pseudouridine
 xanthine

Protein Catabolism and Decay11

1-methylhistidine
 3-methylhistidine
 5-(galactosylhydroxy)-lysine
 dimethylarginine (SDMA + ADMA)
 asymmetric dimethylarginine (ADMA)
 symmetric dimethylarginine (SDMA)
 hydroxy-N6,N6,N6-trimethyllysine
 N,N-dimethyl-pro-pro
 N6,N6,N6-trimethyllysine
 N6-acetyllysine
 pro-hydroxy-pro

Total Number of Metabolites 84

Sample Types and Required Amounts

Sample Type	Sample Requirement
Mammalian Serum	200 µL
Mammalian Plasma	200 µL
Urine	200 µL

Contact us to get started [metabolon.com](https://www.metabolon.com)

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