46 molecules included

V1.0.46

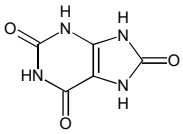
MetaSci

Providing high quality metabolite libraries

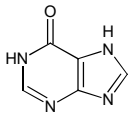
Uric Acid Metabolism Pathway

Purines, Pyrimidines & Xanthines

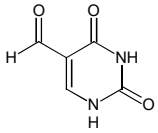
Mixture of Standards for HPLC and Mass Spectrometry



Uric acid



Hypoxanthine



5-Formyluracil

Photo by mdjaff on Freepik

Fully QUANTITATIVE

Purine, pyrimidine and xanthine structures make the backbone of the nucleic acids in human and other living system. The purine nucleic bases go through uric acid metabolism pathway to be excreted in shape of transformed molecules. Pyrimidines are synthesized through orotic acid pathway. Our kit of Purines, Pyrimidines and Xanthines (PPX) contains 46 of molecules and metabolites of purines and pyrimidines metabolism and can be used to quantitatively to measure this type of molecules using LCMS methods. The kit is designed to be used with MS/MS and HRMS instruments for best results and can be used to verify the retention time of metabolites as well as the transition ions and to produce calibration curves

Why digital libraries (NIST, METLIN, WILEY, etc.) are not enough?

Every instrument yields an analysis result specific to its brand, build, methods and other parameters. Digital libraries only contain spectra resulted from the instrument of its producer and lose quality as it is used for other machines. Also they are inefficient in quantitative methods. To produce the most accurate result for each instrument, a lab should run physical standards on every instrument and on each when the methods or conditions (column, solvent, pH, etc.) changes.

CONTACT US
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www.metasci.ca
Canada

46 Purines, Pyrimidines and Xanthines
high purity, single peak, completely resolved, dissolved in DMF

5 Sets of high recovery microampules
each set of standard is provided in five 200µL microampules totaling 1.0mL of standard solution

One internal standard
to adjust your retention time with IS lock

Zero isobaric interference
allows identification with single quad mass spectrometer without a need for digital libraries for identification

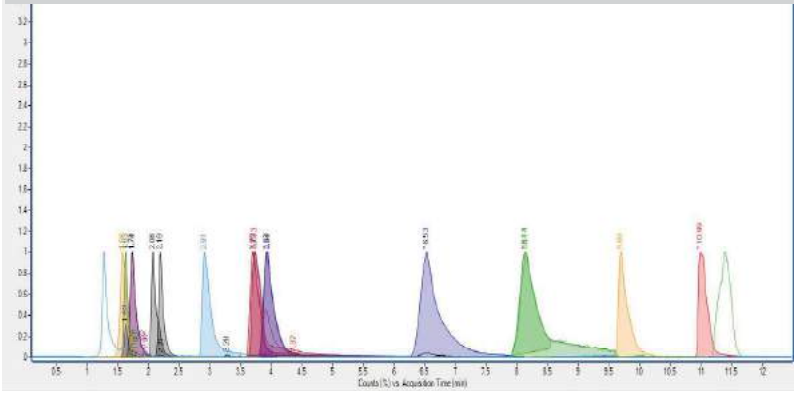
Comes with
- Spectral analysis
- Analysis method
- Certificate of analysis
- Safety data sheet

Works with
- HPLC/UHPLC
- Single Quad
- QQQ
- QTOF

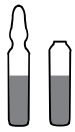
List of molecules (V1.0.46)

1. Cytosine
2. Uracil
3. 5-Methylcytosine
4. 5-Aminoimidazole-4-carboxamide
5. 3-Ureidopropionic acid
6. Adenine hydrochloride
7. Hypoxanthine
8. 5- 5-(Hydroxymethyl) uracil
9. Guanine
10. Oxipurinol
11. L-Hydroorotic acid
12. 3-Methylxanthine
13. Uric acid
14. Theobromine
15. Dihydrouracil
16. Thymine
17. 1,3-Dimethyluracil
18. Orotic acid anhydrous
19. Allantoin
20. Theophylline
21. Cytidine
22. Uridine
23. Caffeine
24. Adenosine
25. Inosine
26. Guanosine
27. Xanthosine dihydrate
28. Theacrine
29. 1-Methyl Adenosine
30. Purine
31. Allopurinol
32. 5-Formyluracil
33. N6-Methyladenine
34. Xanthine
35. Ureidosuccinic acid
36. 5-Methyluridine
37. 2'-Deoxycytidine
38. 2'-Deoxyuridine
39. Thymidine
40. 2'-Deoxyadenosine
41. 2'-Deoxyinosine
42. 2'-Deoxyguanosine
43. 7-Methylguanosine
44. 3-Methyladenine
45. 5-Hydroxymethylcytosine
46. 1,3-Dimethyluric acid

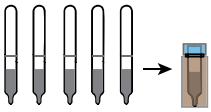
MetaSci PPX Mix2 , Agilent HPLC 1290, QQQ 6460, MS/MS Zorbax Hilic PLUS



Provided in patented *SnapGo* high recovery microampules

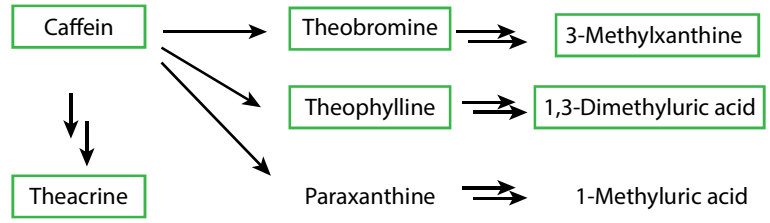


X A 1.0 mL ampule will lose quality/concentration over time after breaking open

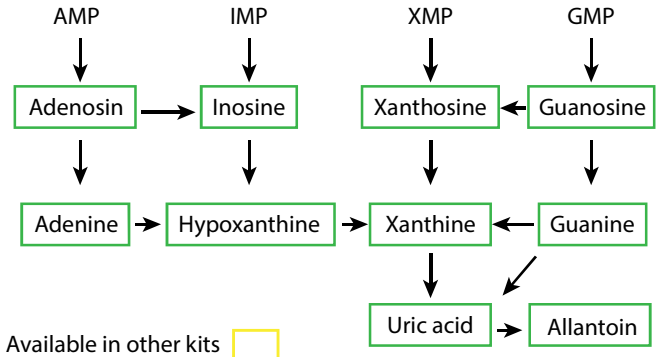


✓ Five microampules allow injections from a fresh solution after one is used

Caffein metabolism



Purine pathway (Uric acid metabolism)



Available in other kits

Available in this kit

Pyrimidine pathways