



Summary: Extraction of Tryptophan metabolites in tissues, cells or plasma by mixed organic extraction solvent. After extraction, supernatants are dried, reconstituted and transferred to autosampler vial for LC-MS analysis. Separation is done on a 2mm x150mm C18 column. All analytes and IS are measured by ES- ionization on a LC-QQQ mass spectrometer and reported as uM. CV's are generally 10%.

Container: 2 mL eppendorf-type polypropylene centrifuge tube

Normal Volume: Plasma (100 ul); Tissue (50 mgs); Cells (2E7)

Minimal Volume: Plasma (50 uL); Tissue (30 mg); Cells (~5E6)

Special Handling: If human or primate, note any known presence of infectious agents

Sample Collection: Please see our detailed sample collection protocol on the Michigan Regional Comprehensive Metabolomics Resource Core (MRC²) website before preparing samples for analysis or contact the core director at the number below for details.

Table I: Analytes (6) reported. Others on special request:

Analyte	Abbr	Mol Formula	Cas No.	Transition	LOQ(uM)
Tryptophan	Trp	C ₁₁ H ₁₂ N ₂ O ₂	73-22-3	205.1->118	.01
Kynurenine	Kyr	C ₁₀ H ₁₂ N ₂ O ₃	343-65-7	209.1-> 192.1	.01
3-hydroxykynurenine	HK	C ₁₀ H ₁₂ N ₂ O ₄	484-78-6	225.1->161.9	.01
Kynurenic acid	KA	C ₁₀ H ₇ NO ₃	492-27-3	190.1->144.1	.01
Anthranilic acid	AA	C ₇ H ₇ NO ₂	118-92-3	138.1->120	.01
Hydroxyanthranilic acid	HAA	C ₇ H ₇ NO ₃	548-93-6	154.1->80	.01