



Micro NGM 3 Pro

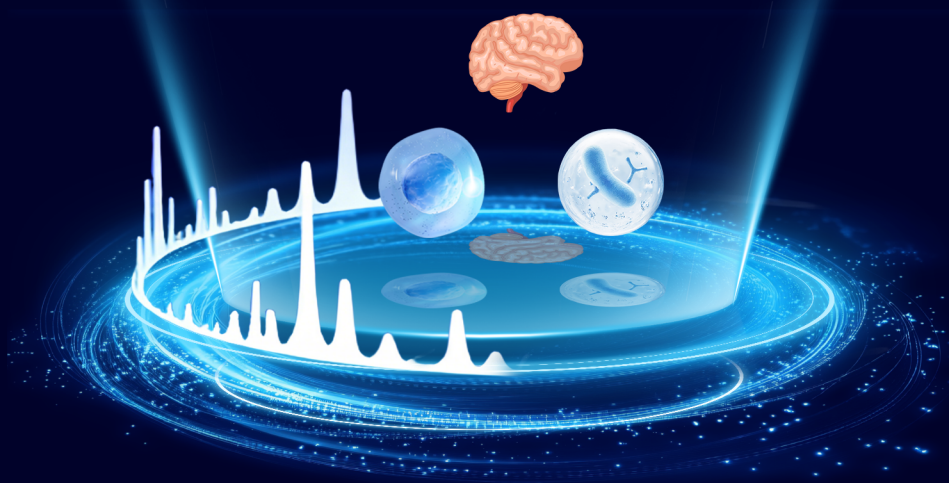
Ultra-Microvolume Untargeted Metabolomics Detection Solution

Designed for
micro volume
samples

Body fluid: 1 μ L
Tissue: 1mg
Cells: 1000

1 μ L
plasma

• Total 6000+
• Level 1 1400+



Note: applicable for dried blood spot, body fluid, tissue and cell samples

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Ultra-low sample volume is a formidable challenge for metabolite detection. The all-new **Micro NGM 3 Pro**, empowered by breakthrough ultra-trace detection technology and paired with the ultra-high-sensitivity **Astral** mass spectrometer, pushes the limits of detection to an entirely new level. With only **1 μ L/1mg of biological sample**, it delivers **unbiased, comprehensive**, and precise metabolic profiling—unlocking the full biological potential of every precious sample and ushering in a new era of bio-detection **where profound insights emerge from the tiniest quantities of Biotree**.

Advantages

- Powered by self-developed ultra-trace detection technology and ultra-high-sensitivity **Astral** mass spectrometer:
- Deep coverage of **6,000+** compounds identified from **1 μ L** human plasma, including **1,400+** Level 1 identifications
- **98.5%** accurate identification rate, in-house library with **20,000+** metabolite standards
- Customizable target panels & novel metabolite discovery

Applications



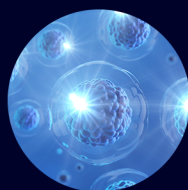
Developmental & Reproductive Medicine

Embryos, oocytes, and trace body fluids — decoding developmental mechanisms to advance reproductive assessment and infertility research.



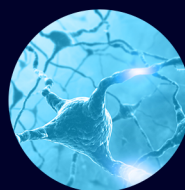
Neonatal Rare Diseases & Inherited Metabolic Disorders

Micro-volume blood and dried blood spots for early screening of inherited metabolic diseases.



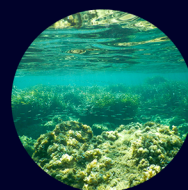
Precision Oncology

Trace samples from biopsies and micro-lesions for tumor subtyping, early screening biomarkers, and drug resistance mechanism studies.



Neuroscience Research

Cerebrospinal fluid and micro-volume brain tissue — investigating pathogenesis of brain disorders and neurometabolic regulation.



Ecology & Aquatic Toxicology

Small-volume samples from micro-zooplankton, fish and shrimp larvae—analyzing environmental pollutant toxicity and ecological stress responses.

Sample amount requirement

Tissue	1-5 mg/Sample	Plasma/serum	1-10 μ L/Sample
Dried blood spot	1 spot/Sample	Oocyte	10~100 Cells/Sample
Cell/bacteria	1000~10000 Cells/Sample	Cerebrospinal fluid	1-10 μ L/Sample

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