

PLASMA BIOMARKER ANALYSIS

Multi-Analyte Profiles (MAPs) are high-density, quantitative immunoassay panels for laboratory animals that allow the alteration in biomarker patterns to be identified in normal, genetically-engineered, and disease models. MAPs provide a comprehensive evaluation of the protein expression patterns indicative of response to disease, drugs, and the environment. This testing service is cost-effective with very small sample requirements; only one drop of serum or plasma yields up to 90 assays. By comparing samples of experimental subjects with controls, relevant patterns emerge. These patterns are critical to applications such as drug safety and efficacy, disease diagnosis, and disease modeling.

Rodent Multi-Analyte Profiles*

Plasma Antigens			
1. Apolipoprotein A1	16. Haptoglobin	31. Insulin	46. MIP-2
2. CD40	17. IFN- γ	32. IP-10	47. MIP-3 β
3. CD40L	18. IgA	33. KC/GRO α	48. Myoglobin
4. C-Reactive Protein	19. IL-1 α	34. Leptin	49. OSM
5. EGF	20. IL-1 β	35. LIF	50. RANTES
6. Endothelin-1	21. IL-2	36. Lymphotoctin	51. SCF
7. Eotaxin	22. IL-3	37. Matrix metalloproteinase 9	52. SGOT
8. Factor VII	23. IL-4	38. MCP-1	53. TIMP-1
9. FGF-basic	24. IL-5	39. MCP-3	54. Tissue Factor
10. FGF-9	25. IL-6	40. MCP-5	55. TNF- α
11. Fibrinogen	26. IL-7	41. M-CSF	56. TPO
12. GCP-2	27. IL-10	42. MDC	57. VCAM-1
13. GM-CSF	28. IL-11	43. MIP-1 α	58. VEGF
14. Growth Hormone	29. IL-12p70	44. MIP-1 β	59. Von Willebrand Factor
15. GST	30. IL-17	45. MIP-1 γ	
Autoimmune Antibodies		Infectious Disease Antibodies	
60. β -2 Glycoprotein	61. Insulin	73. Adenovirus Type 1	82. <i>Mycoplasma pulmonis</i>
62. JO-1	63. Mitochondrial	74. Adenovirus Type 2	83. Parvovirus
64. MPO	65. PCNA	75. <i>Clostridium piliforme</i> (Tyzzer's)	84. Pneumonia virus of mice
66. PR3 (cANCA)	67. Ribosomal P	76. Cytomegalovirus	85. Polyoma virus
68. RNP	69. Scl-70	77. Ectromelia virus	86. Reovirus-3
70. Smith	71. SSA	78. EDIM (Epidemic diarrhea of infant mice)	87. Sendai virus
72. SSB		79. Hepatitis virus	88. Theiler's mouse encephalomyelitis virus
		80. Lymphocytic choriomeningitis virus	
		81. Minute virus	

* For the most current listing of analytes, please contact Rules-Based Medicine, Inc. at 1-866-RBM-MAPS or email info@rulesbasedmedicine.com.

Indications

- Analyze an extensive profile of biomarkers in a single drop of serum or plasma
- Repeated sampling from individual animals
- Low impact sampling from valuable founder animals
- Rapid assay development by an experienced team of scientist

Reporting

Customers will receive calculated concentrations for each analyte in the form of an excel spreadsheet. Most investigators will have internal statistical capabilities, however, statistical analysis for pattern recognition can be requested. Reports will be sent to the customer electronically within two weeks.

Sample Information

The ideal sample is either serum or undiluted plasma in EDTA or sodium citrate anticoagulants (final concentration of 5mm).

The minimum sample requirement of undiluted rodent plasma or serum is 50 microliters. For samples other than those derived from blood, we require 150 microliters.

Additionally, we have developed standard operating procedures for other sample types including cerebrospinal fluid, sputum, tissue extracts, synovial fluid, peritoneal fluid, urine, bronchoaveolar lavage, cell lysates, and tissue culture fluids.

Ship Samples To:

Rules-Based Medicine, Inc.
3300 Duval Road, Suite 110
Austin, TX 78759

Contact

For submission information, normative data, and other MAP questions, please contact Rules-Based Medicine, Inc:
Phone: 1-866-RBM-MAPS
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CHARLES RIVER
LABORATORIES

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