

The Satoris Neuro61 and Neuro77 Biomarker Panels

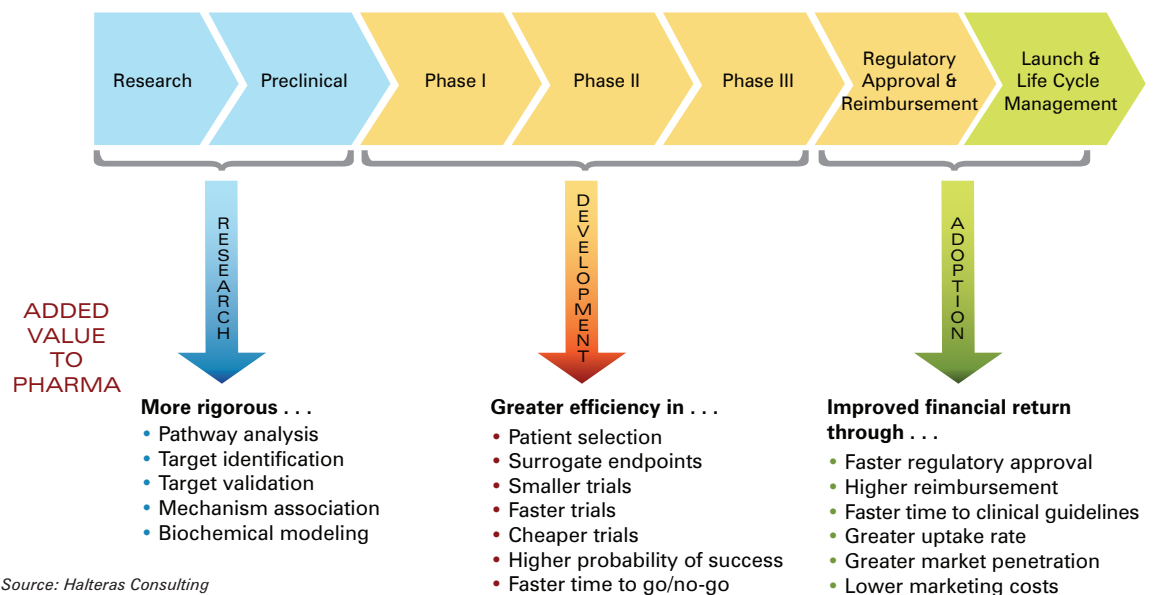
- Choice of two broad neurodegenerative-focused biomarker panels
- Service-based test scales for cost-effective small or large clinical research studies
- Collecting samples is simple, requires 100–120 μL human plasma or serum
- High-quality, consistent results provided by Rules-Based Medicine biomarker testing laboratory

SIGNALING PROTEINS IN BLOOD

Both central and peripheral immune and inflammatory mechanisms have been implicated in Alzheimer's disease (AD) and other neurodegenerative diseases, with signaling molecules being released in the brain at or near the site of disease-related tissue damage. Once thought to be restricted by the blood-brain barrier new evidence suggests there may be measurable differences of signaling proteins in blood plasma that point to changes in the central nervous system and periphery. These proteins or intercellular communication factors in the "cellular communicome" could potentially serve as an unbiased screen in clinical research and drug development (*Nature Medicine*, Ray et al).

There are over 100 compounds for Alzheimer's at various stages of development and clinical trials. There are numerous other compounds and studies targeting dementia, and other neurodegenerative diseases. Identifying biomarkers indicative of disease progression or therapeutic effectiveness could assist in the development and validation of novel therapeutics throughout the drug development process.

THERAPEUTIC VALUE CHAIN



Source: Halteras Consulting

Markers included in the Neuro Biomarker Panels include:

Marker Name	Neuro61 Biomarker Panel	Neuro77 Biomarker Panel
Adiponectin	X	X
Agouti-related Protein (AgRP)	X	X
Angiotensin 2	X	X
AXL	X	X
B Lymphocyte Chemoattractant	X	X
BDNF	X	X
Betacellulin (BTC)	X	X
BMP-6	X	X
Ciliary Neurotrophic Factor (CNTF)	X	X
EGF	X	X
ENA-78	X	X
Eotaxin-3	X	X
FAS	X	X
FAS Ligand	X	X
FGF-4	X	X
FGF basic	X	X
G-CSF	X	X
GM-CSF	X	X

Marker Name	Neuro61 Biomarker Panel	Neuro77 Biomarker Panel
GRO	X	X
HCC-4	X	X
HGF	X	X
I-309	X	X
ICAM-1	X	X
IGF-1	X	X
IGFBP2	X	X
IL-1 alpha	X	X
IL-1 beta	X	X
IL-2	X	X
IL-3	X	X
IL-4	X	X
IL-5	X	X
IL-6	X	X
IL-7	X	X
IL-8	X	X
IL-10	X	X
IL-12p40	X	X
IL-12p70	X	X
IL-13	X	X

Marker Name	Neuro61 Biomarker Panel	Neuro77 Biomarker Panel
IL-15	X	X
IL-16	X	X
Insulin	X	X
Lymphotoxin	X	X
MCP-1	X	X
MCP-3	X	X
M-CSF	X	X
MDC	X	X
MIF	X	X
MIP-1 alpha	X	X
MIP-1 beta	X	X
PARC	X	X
RANTES	X	X
SGOT	X	X
Stem Cell Factor	X	X
Thymus-Expressed Chemokine (TECK)	X	X
TIMP-1	X	X
TIMP-2	X	X
TGF beta 3	X	X

Marker Name	Neuro61 Biomarker Panel	Neuro77 Biomarker Panel
TNF beta	X	X
TPO	X	X
TRAIL R3	X	X
VEGF	X	X
Apo B		X
Apo D		X
Apo E		X
Apo J		X
CD5L		X
CgA		X
Complement Factor H		X
Fetuin A		X
NGFb		X
NrCAM		X
Protein S		X
S100b		X
SOD-1		X
Sortilin		X
sRAGE		X
Vitronectin		X

THE SATORIS NEURO61 AND NEURO77 BIOMARKER PANELS

PROTEIN SELECTION

Recognizing the utility of a broad neurodegenerative-focused panel of biomarkers, Satoris has designed two biomarker panels comprised of plasma proteins likely associated with neurodegeneration and neuroinflammation.

The Satoris Neuro61 and Neuro77 Biomarker Panels are configured for use in clinical research. The tests were developed using samples from leading dementia research centers around the world. The markers in the panel were identified in the course of testing over 3300 plasma samples from leading dementia centers around the world. Samples included patients with Alzheimer's, other dementia, and matched normal controls. The samples were tested with antibody arrays, ELISA or Rules-Based Medicine HumanMAP® panels.

The panels are offered in cooperation with Rules-Based Medicine, who perform the testing in their CLIA-certified biomarker testing laboratory. Two test formats are available: Neuro61 and Neuro77. Both tests share 61 biomarkers. The Neuro77 Biomarker panel contains an additional 16 biomarkers that peer-reviewed literature has indicated may have potential AD involvement.

*Satoris performance is based on EDTA plasma samples. Performance on other sample types has not been established.

RAPID, COST-EFFECTIVE, HIGH-THROUGHPUT

Conserve in-house resources and costs while maintaining flexibility of scale. The Satoris Neuro61 and Neuro77 Biomarker Panels are service-based tests performed on samples of human plasma or serum. Sample reports for these panels include:

- Concentration of each biomarker present for each sample
- Fold change and t-test information is also reported (if sample class designation is provided)

To address the broad array of clinical research experiments, Satoris also offers optional fee-based custom analysis services. Our biostatistics team can provide advanced analytical techniques and statistical tools to help interpret your results.

ORDERING INFORMATION

To learn more about the Satoris Neuro61 and Neuro77 Biomarker Panel services, please contact Customer Service.

Part #	Test Name
NPS-BA	Neuro61 Biomarker Panel
NPP-BA	Neuro77 Biomarker Panel
NPA-AA	Custom Analysis Services

SATORIS CUSTOMER SERVICE

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7:30–4:30 PST, Monday–Friday