

EXPLORING COMPLEMENT HOMEOSTASIS AND ACTIVATION



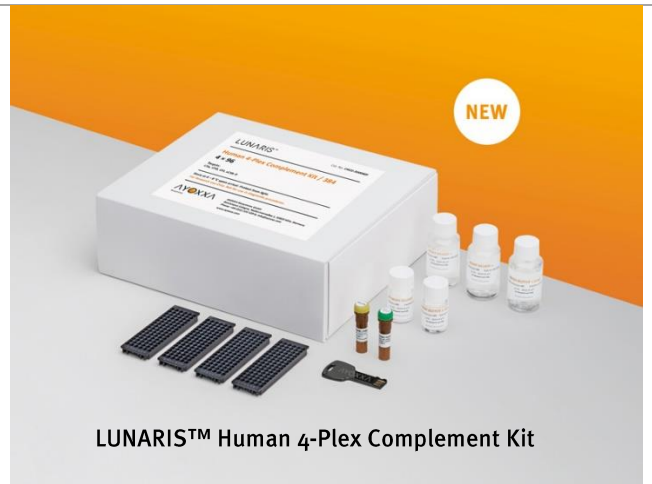
AYOXXA is introducing a NEW LUNARIS™ Kit

The LUNARIS™ 4-Plex Complement Kit enables simultaneous detection and quantification of the following targets in K2-EDTA plasma samples:

- C3a** protein, **CFD** protein (complement factor D), **CFI** (complement factor I), and **sC5b-9** (soluble terminal complement complex).

For translational research in:

- › Interface adaptive / innate immune system
- › Systemic inflammation (e.g., Sepsis)
- › Ophthalmology (e.g., AMD)
- › Infectious diseases (e.g., COVID-19)



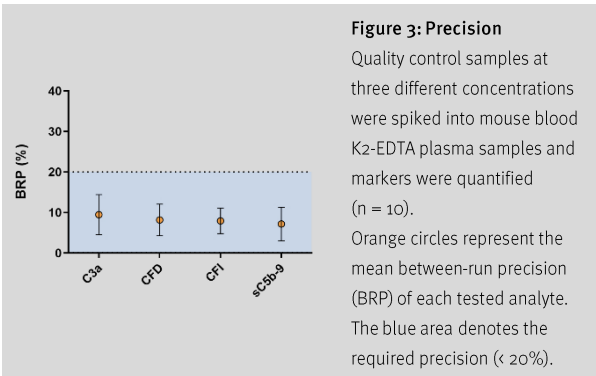
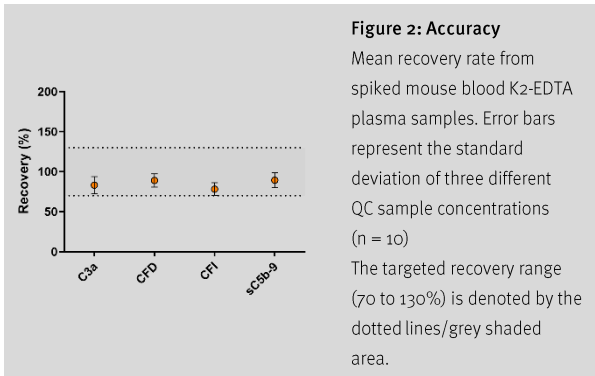
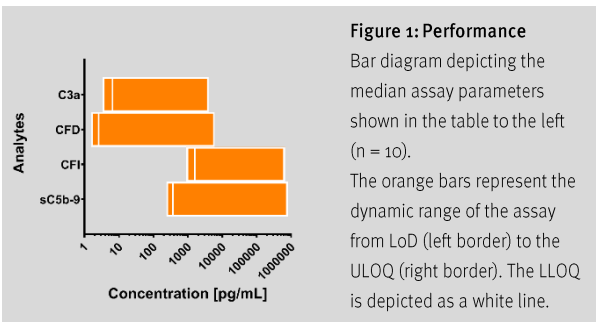
Biological relevance

The complement system is a system of plasma proteins that are activated in a cascade-like fashion to generate active components with different effector functions. It provides an important link between the innate and adaptive immune systems by participating in the induction of inflammation, opsonization of antigens, and immune clearance. Complement deficiency or dysregulation is therefore thought to play a key role in several diseases. The LUNARIS™ 4-Plex Complement Kit enables the detection and quantification of components of the classical and alternative complement pathways to gain deeper insight into the modes of complement activation in various diseases and inflammatory conditions.

Excellent data quality

Table 1: Performance
Median assay parameters determined for a ten-point standard curve (n = 10). Limit of detection (LoD), lower limit of quantification (LLOQ), and upper limit of quantification (ULOQ) given in pg/mL; Dynamic range (DR) on a log scale.

Analyte	LoD	LLOQ	ULOQ	DR
C3a	3.4	6.6	4000	2.8
CFD	1.6	1.6	6000	3.6
CFI	905.7	1081.3	660000	2.8
sC5b-9	237.8	367.0	800000	3.3



The all **NEW LUNARIS™ Human 4-Plex Complement-Kit** expands our portfolio of LUNARIS™ Kits designed to measure multiple protein biomarkers in a variety of clinically relevant sample types, granting **insights into disease mechanisms** and **potential therapies**, advancing translational proteomics at all stages from lab to clinic.

LUNARIS™ Technology

		
<h3>LUNARIS™ Kits</h3> <ul style="list-style-type: none"> › Detect and quantify up to 12 disease-relevant biomarkers: Cytokines, Chemokines, Complement & Growth factors › Applicable to a variety of clinically relevant sample types › Translate knowledge from lab to clinic 	<h3>LUNARIS™ Reader</h3> <ul style="list-style-type: none"> › Load-and-read, fully integrated system › High-precision optics made in Germany › Two models to match your throughput › Read 96 samples in less than 10 minutes 	<h3>LUNARIS™ Software</h3> <ul style="list-style-type: none"> › Jump-right-in software: intuitive and easy to use › Complete data evaluation in less than a minute › Transparent immunoassay QC functions › All raw data, results, and graphs exportable to customized reports or data spreadsheets

EXPLORE COMPLEMENT HOMEOSTASIS & ACTIVATION

Measure **C3a, CFD, CFI, sC5b-9** in K2-EDTA plasma samples

Call the experts for more information:

+49 (0) 221 222 529 55

support@ayoxxa.com

www.ayoxxa.com

Why choose LUNARIS™ for complement research?

- › **Multiplexed:** Detect and quantify multiple complement proteins and factors in one sample
- › **Deep insights:** Expand biomarker profiling to Cytokines, Chemokines, and Growth factors
- › **Data quality:** Excellent precision and accuracy
- › **Broad dynamic range:** Over 3–4 logs scale
- › **Flexible format:** For low to high sample throughput

Ordering Information

LUNARIS™ Kit	Targets	No. of BioChips	Cat. No.	No. of samples <i>(measured in duplicates)</i>
Human 4-Plex Complement	C3a CFD, CFI, sC5b-9	1 x 96	LHCO-20040S	40
		4 x 96	LHCO-20040F	160

For Research Use Only. Not for use in diagnostic procedures.