

# DATA SHEET

## hybcell Inflammation Blood xA for Patient Monitoring



CUBE-DS-15029-V01-E  
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Fast and efficient method to determine levels of inflammatory and kidney markers in human plasma.

### Benefits

- A swift and quantitative result for six common inflammation and kidney markers
- Very small amounts suffice as samples (100 µL)
- The results can be displayed as a time sequence (graph)
- Hygienic and simple handling procedure available on a 24/7 basis
- Simple and manageable cost control
- Integrated result calculation and presentation

### Usage and Product Description

Cube Dx' hybcell Inflammation Blood xA examines human plasma for the presence of 6 well characterized inflammatory protein markers. The test is used in case of severe infections or sepsis. One test takes 20 minutes.

Human blood is collected in a tube with anticoagulant (EDTA) and produced plasma serves as sample. 100 µL plasma are mixed with a unit-use conjugate-mixture in a tube. 100 µL of the mixture are transferred into the hybcell. During incubation, inflammatory markers bind to specific immobilised antibodies on the hybcell.

Unbound material is washed away and fluorescence labelled secondary antibodies detect bound markers.

The fluorescence signals are measured by the hyborg, Cube Dx' fully automated device. Analysis and report compilation is done by the hyborg software without any user interference necessary.

hybcell protocol: hybcell Inflammation Blood xA - A22 - V008

hybcell ID: 1512A220478

Sample ID: †# LG2

hybcell created: Service, 6/16/2014 10:24:33 AM

hybcell processed: LBI, 5/13/2014 10:41:28 AM

Sample ID



hybcell ID



Controls	Quality
hybcell	VALID

Criteria	Quality	Visualization
CRP (0 - 0.6 mg/dL)	10.2 mg/dL	0.3  50
Interleukin 6 (0 - 100 pg/mL)	2148 pg/mL	200  20000
Interleukin 8 (0 - 200 pg/mL)	2155 pg/mL	200  10000
PCT (0 - 0.5 ng/mL)	16.0 ng/mL	0.5  80
SAA (Serum Amyloid A) (1 - 5 µg/mL)	180 µg/mL	2  700
Cystatin C (0.5 - 1.5 µg/mL)	1.4 µg/mL	0.3  10

Reported results.

**Sample volume:** 100 µL plasma

**Analysis system:** hyborg Dx RED

**Test duration:** approx. 20 minutes

**Throughput:** completely automated processing of 8 samples in approx. 2 h 45 min

**Kit contents:** material for 12 tests (available in kit packs of 4 with 12 tests each)

**Shipping and storage:** hybcells can be shipped and stored at room temperature (8 to 25 °C) with a shelf life of 12 months. Some components have to be shipped frozen and must be stored at -15 to -25 °C (for maximum 12 months).

**Order number:** HC0300-48



Figure 2: hybcell Core.

### Specification (\*)

No.	Analyte	Standard value	Working range	Unit
1	<i>Cystatin C</i>	~0.6 – 1.5 µg/mL	0.3 / 10	µg/mL
2	<i>CRP</i>	< 0.6 mg/dL	0.3 / 100	mg/dL
3	<i>IL-6</i>	< 14 pg/mL	200 / 20,000	pg/mL
4	<i>IL-8</i>	< 20 pg/mL	200 / 20,000	pg/mL
5	<i>Procalcitonin</i>	< 0.5 ng/mL	0.5 / 100	ng/mL
6	<i>Serum amyloid A (SAA)</i>	< 5 µg/mL	2 / 700	µg/mL

(\*) As limits of quantification can vary from lot to lot, the lot-specific limits of quantification can be found at our website: [www.cubedx.com](http://www.cubedx.com)