



## Biomarker Qualification Sheet

### Qualified Imperacer® Assay for the Quantification of C-reactive Protein (CRP) in Human Serum

#### **C-reactive protein (CRP):**

The C-reactive protein (CRP) is a marker for inflammation produced by the liver. Following IL-6 release, CRP levels increase and peak 48 hours after an injury or infection stimulus. Binding lysophosphatidylcholine on apoptotic cells, it activates the complement system via C1q and thus promotes phagocytosis by macrophages and fat cells. CRP is inhibited by Interferon alpha. Elevated levels of CRP are associated with cancer, fibrosis and inflammation, viral infections and rheumatoid arthritis.

*Table 1: Assay setup*

<b>Analyte:</b>	C-reactive protein (CRP)
<b>Platform:</b>	Imperacer® (Immuno-PCR)
<b>Matrix:</b>	Human serum
<b>Status:</b>	Qualified

*Table 2: Assay details*

<b>Lower limit of quantification:</b>	2.7 ng/ml
<b>Upper limit of quantification:</b>	1,046 ng/ml
<b>Assay range:</b>	2.7 – 1,046 ng/ml
<b>Minimum required dilution:</b>	1:70
<b>Minimum sample volume:</b>	1 µl