



Biomarker Qualification Sheet

Qualified Imperacer® Assay for the Quantification of Interleukin 1 beta (IL-1 β) in Human Synovial Fluid

Interleukin 1 beta (IL-1 β):

Interleukin 1 beta (IL-1 β) is a pro-inflammatory cytokine. Released by activated macrophages, the proprotein is proteolytically processed to its active form, which plays a role in inflammatory response, apoptosis and cell proliferation. Elevated levels of IL-1 β have been observed in patients with diabetic retinopathy.

IL-1 α is also known as leukocytic pyrogen, leukocytic endogenous mediator, mononuclear cell factor and lymphocyte activating factor. Because “ β ” is sometimes mistaken as “ β ”, which translates to “ss”, several variations in writings occur.

Table 1: Assay setup

Analyte:	Interleukin 1 beta (IL-1 β)
Platform:	Imperacer® (Immuno-PCR)
Matrix:	Human synovial fluid
Status:	Qualified

Table 2: Assay details

Lower limit of quantification:	0.12 pg/ml
Upper limit of quantification:	75 pg/ml
Assay range:	0.12 – 75 pg/ml
Minimum required dilution:	1:10
Minimum sample volume:	7 μ l