



Biomarker Qualification Sheet

Qualified Imperacer® Assay for the Quantification of GM-CSF in Human Plasma

GM-CSF:

The granulocyte-macrophage colony-stimulating factor (GM-CSF), also known as colony-stimulating factor 2 (CSF2), is a monomeric glycoprotein which functions as a cytokine. As a growth factor for leucocytes, it stimulates the production of granulocytes and monocytes and is used to treat neutropenia in cancer patients undergoing chemotherapy, AIDS patients and patients after bone marrow transplantation.

Joints with rheumatoid arthritis show high GM-CSF levels and due to its pro-inflammatory effect, blocking might reduce the inflammation or damage.

Table 1: Assay setup

Analyte:	GM-CSF
Platform:	Imperacer® (Immuno-PCR)
Matrix:	Human plasma
Status:	Qualified

Table 2: Assay details

Lower limit of quantification:	0.06 pg/ml
Upper limit of quantification:	36.7 pg/ml
Assay range:	0.06 – 36.7 pg/ml
Minimum required dilution:	1:10
Minimum sample volume:	7 µl