



Biomarker Qualification Sheet

Qualified Imperacer® Assay for the Quantification of Interleukin 2 (IL-2) in Human Serum

Interleukin 2 (IL-2):

Interleukin 2 (IL-2) is a cytokine regulating leukocyte activity. It promotes anti-tumor immune activity by stimulating effector T and natural killer cells expressing the β - and γ -subunit of the IL-2 receptor (IL-2R). The IL-2R α -subunit binds IL-2 with lower affinity, thus the interaction with CD25 alone is not sufficient to lead to signal transduction, but requires hetero-dimerization of the β - and γ -subunit (CD22/CD132). While memory CD8⁺ T cells and natural killer cells express dimeric IL-2R, regulatory and activated T cells express trimeric IL-2R.

Table 1: Assay setup

Analyte:	Interleukin 2 (IL-2)
Platform:	Imperacer® (Immuno-PCR)
Matrix:	Human serum
Status:	Qualified

Table 2: Assay details

Lower limit of quantification:	0.46 pg/ml
Upper limit of quantification:	1,000 pg/ml
Assay range:	0.46 – 1,000 pg/ml
Minimum required dilution:	
Minimum sample volume:	