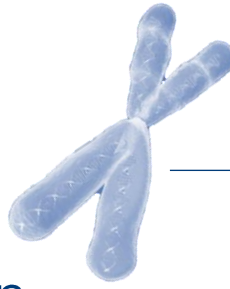


Quantitative Telomeric Repeat Amplification Protocol



Life Length, the world leader in telomere measurement and diagnostics, offers corporate clients a range of customized services to support R&D product development and in clinical studies.

Q-TRAP measures **telomerase activity** in cellular extracts. We detect relative telomerase activity by a modified version of the telomeric repeat amplification protocol coupled with real-time quantitative PCR analysis (Q-TRAP). The methodology has been **optimized and scaled up to the highest standards** offering a reliable, **sensitive and rapid determination** that can be combined with our TAT and other biomarkers.

Technology Value



Applicability

- Telomerase activity is a key parameter in age related and chronic diseases, stem cell therapies and research, oncology product development, nutraceutical and cosmetic efficacy testing



Versatile

- Performed on blood cells, primary cultured cells and stem cells from a variety of tissues
- *In vitro* and *in vivo*, both in clinical and pre-clinical trial studies



Reproducibility & Scalability

- Robust results in 96-well plates
- Output: customized fully-informative report with relative telomerase activity (RTA)

SAMPLE PROCESSING, STORAGE and SHIPPING

- ✓ Cells should be provided in single-cell suspension frozen in adequate freezing media to guarantee viability after thawing $\geq 80\%$
- ✓ Minimum of 1 million cells at a cell density of 1×10^6 cells/ml.
- ✓ Aliquots may be stored at -80°C for a maximum of 10 days or in liquid nitrogen for long-term storage. Shipping to our laboratory facilities is on dry-ice.