



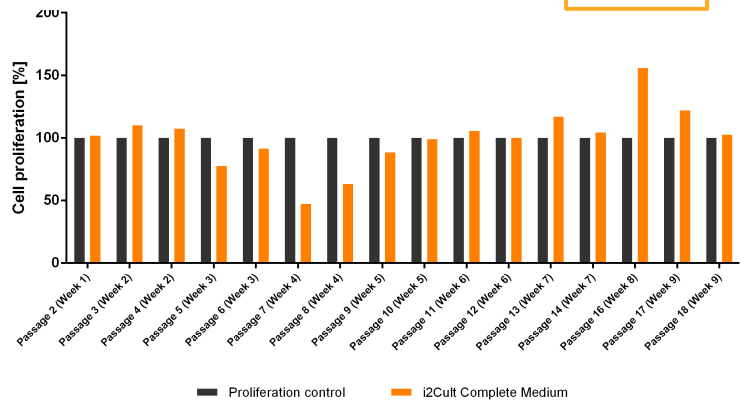
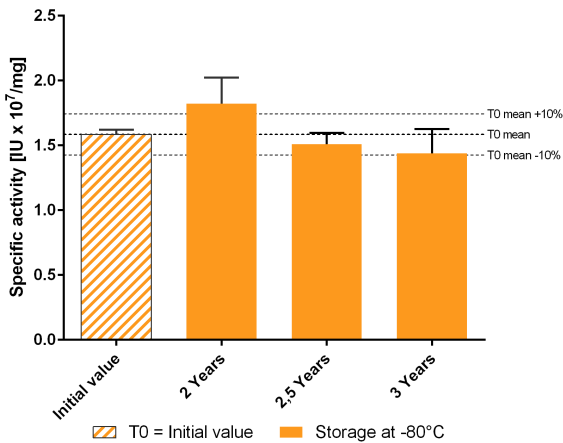
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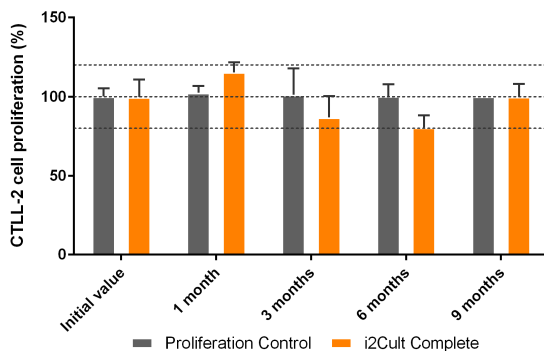
Recombinant Human Interleukin-2

Immunservice's recombinant human Interleukin-2 (rhIL-2) is a secreted cytokine consisting of a mixture of three isoforms and is a key signaling molecule in the immune system. Interleukin-2 regulates the proliferation of T and B lymphocytes and stimulates differentiation of B cells, NK cells, lymphokine-activated killer cells, monocytes, macrophages and oligodendrocytes.



Stress test for Immunservice's Recombinant Human Interleukin-2 present in Immunservice's i2Cult Complete Medium. CTLL-2 cells were cultured permanently in i2Cult medium, which was handled under real conditions to verify the usual effects of changes in temperature (cycles of heating and cooling to 37°C in a water bath), light and pH during each cycle of subcultivation. As the proliferation control, rhIL-2 was added freshly to the medium during subcultivation. Depicted is the proliferation rate of CTLL-2 cells (orange) relative to the control (grey, set to 100%). It can be seen that Immunservice's i2Cult Complete Medium is not affected by changes in temperature, light or pH during cultivation. **i2Cult medium containing our stable rhIL-2 supports the proliferation of CTLL-2 cells overall as well as our freshly added rhIL-2 over a period of at least 10 weeks.**

Measurement of the stability of Immunservice's **Recombinant Human Interleukin-2** at a storage temperature of **-80°C**. Depicted is the mean specific activity of rhIL-2 from 2-4 independent experiments. The specific activity was measured by means of a dose-dependent proliferation assay using the established murine cell line CTLL-2. It is clearly evident that Immunservice's **rhIL-2 is stable for at least 3 years** when stored at -80°C.



Measurement of the stability and functionality of rhIL-2 in Immunservice's i2Cult Complete Medium. i2Cult was stored at +2°C to +8°C for the depicted time periods (1 month, 3 months, 6 months, 9 months) and the functionality was measured by culture of CTLL-2 cells. Shown is the proliferation of CTLL-2 cells after culture for 3 days in i2Cult medium (orange) relative to the proliferation in the control medium (grey, set equal to 100%) to which rhIL-2 was added freshly during subcultivation. It is clearly evident that the i2Cult medium containing our **stable rhIL-2** is stable at +2°C to +8°C and supports proliferation of CTLL-2 with no loss of proliferation strength over a period of up to **9 months**.

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**Mixture
of
three
isoforms**

Stable