



Price list, March 2022

- **Polyclonal antibody serum:** 30-50 ml of frozen serum of an immunised animal including ELISA results determining alpaca serum response titres. For immunisation 400 µg to 800 µg antigen is required and additional 40-50 µg for evaluation of the immune response.

Time required: 8 weeks.

Costs: CHF 3'300.- (applies only for generation of alpaca polyclonal antibodies)

- **Isolated lymphocytes:** typically 1×10^8 cells, stored frozen in aliquots of 2×10^7 in 1.0 ml Trizol reagent including ELISA results determining alpaca serum response titres.

Time required: 8 weeks.

Cumulative costs: CHF 4'830.-

- **Phagemid library in E. coli:** typically 1×10^7 - 1×10^8 CFU, stored frozen in 2xYT/25% glycerol.

Time required: 10 weeks.

Cumulative costs: CHF 9'100.-

- **Phage library:** $1 \times 10^{12-13}$ precipitated phages, stored frozen in 1 ml PBS/50% glycerol.

Time required: 10 -11 weeks.

Cumulative costs: CHF 9'525.-

- **Target-enriched and ELISA-screened individual clones:** 2 x 96-well masterplates with individual clones, each clone frozen in 160 µl 2xYT/25% glycerol; including ELISA results. For selection, additional 50 µg of target antigen is needed and for ELISA screening of colonies another 100 µg.

Time required: 13-14 weeks.

Cumulative costs: CHF 14'750.-

- **Amino acid sequence of the identified binder(s):** a selection of ELISA-positive clones are sent for sequencing (usually 96). The nucleic acid sequences are translated, aligned and individual nanobody families are determined. On average 1 to 20 different target-specific nanobodies are identified per target antigen that induced sufficient immune response.

Time required: approximately 16 weeks.

Cumulative costs: CHF 15'225.-

The price given is per one target antigen. Each additional antigen is additional CHF 1'800.- (up to 4 target antigens per one animal/phage library)

*All prices are calculated for the University of Zürich members and research collaboration contracts and do not include sequencing costs (CHF 430.- per plate, outsourced), UZH overhead fees (20%) and VAT (7.7%) where applies.

Industry partners are kindly invited to contact us regarding quotes for contracted research.