MOLECULAR ENGINEERING ANTIBODY SCIENCE RECOMBINANT PROTEINS CELLULAR ENGINEERING

More than 20 years of expertise and know how High quality, Reliability, Flexibility and Reactivity

Research Tax Credit Accreditation ISO 9001:2015 certification



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BIOMANUFACTURING CUSTOM SERVICES



PLASMID DNA

- Production and purification, up to gram
- ✓ R&D, "Endofree" and High Quality Grades (HQG)
- ✓ GMP grade pDNA up to 20 grams
- Quality controls & documentation adapted to your specifications



MONOCLONAL ANTIBODIES

- Production and purification, from 100 ml to 300 L of supernatant
- R&D, "Endofree" and High Quality Grades (HQG)
- Mouse, Rat and other species
- Monitoring of concentration by FastELISA technology
- Labelling and modifications



RECOMBINANT ANTIBODIES

- Antibody sequencing
- Vector design and construction
- Transient transfection (CHO, HEK293, ...)
- Production by stable transfection: from a cell line or a stable pool of cells
- Chimeric, humanized, bi-specific, fragments, scFV, VHH...



RECOMBINANT PROTEINS

- ✓ In silico studies
- Custom construct design
- Multiexpression systems: E. coli, Cell Free, yeasts, mammalian cells (CHO, HEK 293, ...)
- Purification (Affinity, IEC, SEC...)

Production scales and Quality levels adapted to your applications Up to several grams For R&D, preclinical and clinical studies

RD-Biotech





Technopole TEMIS Santé 18 rue Françoise Dolto F-25000 Besançon





R&D CONTRACTS & BIOMANUFACTURING

An Integrated Biotechnology Solution



MOLECULAR ENGINEERING

- Custom vector construction: In silico studies, custom design & cloning (mono and bi-cistronic, difficult constructs)
- Plasmid DNA production and purification, Research, "endofree", High Quality and GMP grades
- Plasmid DNA linearization
- RNA preparation (in vitro transcription)
- Cell line validation / Genotyping

IMMUNOLOGY: Monoclonal & Recombinant Antibodies

- Ab sequencing (VH/VL, HC/LC)
- Ab engineering: chimerization, humanization, Isotype switching, reformatting (Fab, bi-specific, scFV, Fc Fusion...)
- ✓ Antibody characterization and validation (ELISA, Western blot, Cytometry, Octet, bioassays...)
- In vitro production, purification and quality controls



CELLS AND RECOMBINANT PROTEINS

- Custom process development in adapted expression systems
- In silico studies and feasibilty tests
- Pilot step for expression & purification process optimization
- ✓ Multisystem offer: E. Coli, mammalian cells (HEK, CHO...), yeasts and Cell Free system
- ✓ Stable cell line development by transfection
- Master and Working cell banks



ANALYTICAL SERVICES and BIOASSAYS

- Analytical method development: Immunoassays, ELISA, PCR...
- LUMINEX platform
- Cell based assays
- ✓ Bioassays: ADCC, CDC, .. or custom development
- ✓ Quality controls: mycoplasma, endotoxins, bacterial contamination, ...



FastELISA[®] KITS

- ✓ Human IgG, mouse IgG, rat IgG, bovine IgG, …
- Mouse immunoglobulins isotyping
- Contaminant detection (Protein A, Host Cell Proteins)
- Results in 30 minutes
- Ready-To-Use reagents (15 min of incubation)

EXPLORE OUR CRO / CDMO CUSTOM SERVICES





a compagny of the group

