



Bulk Antibody Production

APS is an independently owned UK based company providing contract services to meet the growing demand for outsourcing production so you can focus on core activities.

Our bulk antibody production service offers a fully managed service providing a customisable and adaptable approach to the large scale production of antibodies.

Bulk production services available

- Adaptation of both hybridoma and transfected mammalian cell lines to regulatory compliant protein free media.
- Scale-up in roller bottle culture to 150 litre. Roller bottles allow scaled process development such that parameters developed for small scale are directly transposed into larger scale.
- Tangential cross flow concentration of crude feedstock and subsequent downstream purification using either protein A/G or affinity chromatography.
- Bespoke formulation with associated QC: SDS-PAGE, Western blot, quantitative assay.
- Preparation and storage of working cell banks for subsequent lot production.
- All work carried out in UK laboratories that are certified to ISO 9001:2015 quality standard.

Ancillary products and services

- We hold a range of cell lines expressing all common murine isotypes (IgG1, IgG2a, IgG2b, IgG3 and IgM): These can be produced under identical conditions to the target antibody and used as isotype controls in both *in vitro* and *in vivo* assays.
- Antibody fragmentation for generation of fragments including Fab, F(ab')₂ and Fc.
- Conjugation to HRP, FITC and RPE.
- Mycoplasma testing of cell lines.

MOUSE GENOTYPING Transgenic and knock-out

- Genomic DNA extraction from a range of tissues including: tail snip and ear clip.
- PCR amplification of genomic DNA using allele-specific oligonucleotides.
- Full report of PCR data including gel annotation of original results with accompanying mouse I.D. including colony information.
- Rapid turn-around time of 5 working days from receipt of biopsies. Express service of 1 working day available.