

300+ Life Science Services

Premium Quality Services made by Canvax™ PhD Team, that guarantees 100% Customer Satisfaction

About Canvax™

Since 2001, Canvax™ has been an Original Manufacturer & Supplier of the Most Innovative Solutions, Services, Kits and R&D Reagents inside the Life Sciences field. **Awarded as Most Innovative Company in 2014, with 10 Technologies Patented Worldwide or Unprecedented Milestones achieved**, Canvax™ put at your disposal its unmatched know-how, exclusive Expertise and worldwide leading R&D knowledge through its Reliable and Cost-effective Products and Services.

Canvax™ Advantages & Features

- >> **Highly Specialized & Largest Range:** 300+ different Life Sciences Services availables.
- >> **Latest Equipment & Technologies:** made in Canvax™ Headquarters, based in Córdoba (Spain), a 1,500 m² fully-equipped lab.
- >> **Experienced Staff:** Canvax™ PhD Team has an average 20+ years' experience hands-on.
- >> **Cost-Advantage:** due the use of Canvax™ Powerful Products.
- >> **Trustworthy:** Confidentiality Agreement, Technical Advice, regular updates, Go-No Go steps, and much more.
- >> **Custom-tailored & Modularized Services:** to assure that every step meets your needs.
- >> **Bilingual Technical Support:** for easier understanding, your inquiries would be answered in Spanish or English.

Canvax™ has a proven track record in really different types of R&D Services, to Big Pharmaceuticals Companies, CROs, Industry, or Academia Research Centers worldwide. **Below there is a list of some examples of the Services that Canvax™ has provided in the past. Please, contact your Official Distributor to get a fast and no-obligation Quotation, even when your Project is not included in the listing or looks related.**

Custom Solutions

We manufacture exactly what you need from 1 unit

Canvax™ could Design and Manufacture a Customized Solution or Kit specifically for you. It means that we could take a Product from our Catalog and adapt the formulation, documentation or size, or even **create a new solution from zero that suits your needs.**

R&D Services

Canvax™ is Expert in designing and constructing microorganisms with broad Biotechnological applicability, such as:

- >> Probiotics.
- >> Live Attenuated Vaccines (LAV).
- >> Subcellular Vaccines.
- >> Biofactories for Recombinant Proteins and Molecules.
- >> Amino acid and vitamin-enriched food supplements.

Custom GPCR for Drug Discovery

Canvax™ PhD Expert team, with extensive experience and relevant Patents and Milestones, offers:

- >> Cell line Development.
- >> High-Throughput Screenings (HTS).

Custom Cloning

As a worldwide expert Company in Cloning and Expression, Canvax™ offers time-saving Services for Plasmids with different Antibiotic Markers, copy numbers, promoters, tags or fusions. Our PhD Team synthesize daily genes and sequences of any origin and sub-clone them in the most suitable customized-vector depending on your needs: Constitutive or Inducible Expression, Translation-Transcriptional Reporters, Introduction of selectable Markers for stable Cell Line generation, IP-free Plasmid backbones or "de novo" constructions and much more.

Some examples of Services that Canvax™ offers:

- >> PCR Cloning & Subcloning.
- >> Screening and Transformation of *E. coli*.
- >> Gene Synthesis.
- >> DNA Barcoding.
- >> cDNA Synthesis.
- >> sRNAs Analysis.
- >> Quantitative RT-PCR Analysis.
- >> RNA Extraction/isolation.
- >> Transcriptional and Translational fusions.

Phytopathological

Thanks to our deep know-how, Canvax™ offers high-level Services like:

- >> Xylella fastidiosa Diagnosis.
- >> Detection of Verticillium dahliae, Pseudomonas savastanoi, Phytophthora or any Plant Pathogens.



ELISA & Immunoassay Development

Canvax™ has extensive experience in:

- >> Transfer, Development, Validation, Characterization and Production (Pilot production and scale-up manufacturing) of a wide-range of ELISA and other plate-based assay configurations.

RNA Services

Thanks to our deep understanding of RNA, Canvax™ offers high-level Services like:

- >> cDNA Synthesis.
- >> sRNAs Analysis.
- >> Quantitative RT-PCR Analysis.
- >> RNA Extraction/Isolation.
- >> Northern Blot.
- >> *In vitro* RNA Transcription.
- >> RACE.

Molecular Microbiology & Genetic Engineering

Some examples of the Genetic tools that Canvax™ are used to customize:

- >> Engineering yeast, Gram-positive and Gram-negative bacteria, with bio-safety levels 1 and 2.
- >> Versatile shuttle vectors to introduce exogenous DNA in certain bacterial species using Plasmids and Phages.
- >> Random Mutagenesis and Overexpression Process.
- >> Reporter Genes based on Fluorescence or Luminescence.
- >> Chromosomal gene inactivation.

Cell-based Bioassays

Canvax™ offers the Design and Performance of different Bioassays that result extremely helpful for the functional study of novel molecules and compones.

- >> Study of the probiotic effects of a molecule or formulation
- >> Study of cellular responses (immunomodulation, antioxidant activity, digestibility, etc) in different cell lines.
- >> Study of the effect of a molecule or formulation on translational rates in different cell lines.

Lateral Flow Immunoassays

Canvax™ offers a cost-effective and customized final Immunoassay product adapted to your requirements:

- >> Total Customization: limit of detection, diagnostic and analytical specificity and sensitivity, reproducibility (inter-lot, inter-day, inter-lab), and quality control definition.
- >> Experimental procedure consists in the optimization of different input variables that affect directly the quality of the final product, defined by output variables.

Protein Expression

Our outstanding Protein Expression Services in Bacteria, Baculovirus and Mammalian from Gene Cloning to large-scale production, include:

- >> Codon optimization.
- >> POC assays Expression in Bacterial and yeast platforms.
- >> Small scale Recombinant Protein Production.
- >> cDNA Synthesis & Cloning.
- >> Double affinity-exclusion Purification steps to 20 mg.

Polyclonal & Monoclonal Antibody Production

Thanks to Canvax™ proprietary Recombinant Antibodies Technology, we offer Antibody Production Services, in Rabbit and Mouse, or additional Services like:

- >> Protein A Antibody Affinity Purification.
- >> Peroxidase & Biotin coupling.
- >> Immunohistochemistry.
- >> Purification by Protein G.
- >> Antibody Isotyping and Characterization assays.
- >> Production and Purification of scFvs, Fabs, vNARs or VHH.

cEDUx™ BioEducation

Custom Service that, based on the characteristics of each Educational Center, offers Kits for Laboratory Training for the BioEducation for all levels. Includes:

- >> Customized Protocols, adapted to students' level, budget, stockage and equipment available.
- >> Canvax™ supply all the necessary materials, in a single Kit, ready-to-start the Training.
- >> Scientific Support for the Teacher by email.

* Canvax™ performs all its procedures, protocols and animal experimentation care according to the specifications established on "Protection of animals used for experimentation and other scientific purposes" in Spanish Real Decreto 21/10/2005.

For a complete listing of Canvax™'s Highly Innovative Molecular & Cell Biology solutions, visit: canvaxbio.com

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