

## 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 m<sup>2</sup> 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.

## Distributed in Spain by:










For a complete listing of Canvax™'s Highly Innovative Molecular & Cell Biology solutions, visit: [canvaxbio.com](http://canvaxbio.com)

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