

# PHARMACEUTICAL

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The Irish Pharmaceutical sector, which comprises pharmaceutical, fine and specialty chemical, and biotechnology companies, employs over 19,000 people and is one of the world's largest exporters of pharmaceuticals. Ireland is a world-leading centre of excellence for the manufacture of pharmaceutical and fine chemical products - 13 of the top 15 pharmaceutical companies in the world have a manufacturing base in Ireland.

Furthermore, there is a substantial indigenous industry of over 100 companies engaged in pharmaceutical/chemical related activities

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## KEY SECTOR CHARACTERISTICS:

- Number one location in Europe for international pharmaceutical investment
- World's fourth largest exporter of pharmaceuticals - \$100 million in 1973 to over \$40 billion currently
- In 2007 total exports of intermediates and finished pharmaceuticals amounted to €29.7 billion, accounting for 40% of total manufacturing exports
- Six out of ten of the world's top selling drugs are now produced in Ireland

such as the development and manufacture of human and veterinary medicinal products, development of enabling technologies, drug discovery and delivery, and contract services (including IT services). The sector also includes fine and specialty chemical development and manufacture, e.g. starting materials, intermediates and active pharmaceutical ingredients (APIs) for the pharmaceutical sector, plant protection products and disinfectants.

## GROWTH AREAS:

Enterprise Ireland has identified the following areas as representing growth opportunities for the sector over the next five years.

- Biopharma such as early-stage drug discovery/drug delivery, enabling technologies, etc.
- Niche generics/generics-plus
- Pharma contract services such as development, analysis/testing, regulatory affairs, niche manufacturing, IT, etc.

## IRELAND

Because of its emergence as an entrepreneurial and dynamic global economy, Ireland has drawn international recognition as a compelling business proposition.

Irish export levels are over seven times greater per capita than in the USA, and with an average GDP growth rate of 6% from 1995 to 2006, Ireland has consistently topped OECD economic growth tables.

## ENTERPRISE IRELAND

Enterprise Ireland, the trade and technology board of the Irish Government, is one of the main catalysts for Ireland's continuing strong entrepreneurship and innovation performance.

Having invested €135 million in Irish companies in 2007 - which leveraged some €600 million of further investment in Ireland - we can demonstrate a solid track record of developing businesses with high-growth potential and improving our clients' competitive advantage in world markets.

As a global organisation, we have developed a vibrant network of contacts, detailed local knowledge and first-class business relationships with industry leaders all over the world. Our organisation can provide you with unique access to over 4,000 Irish companies.

The Irish corporation tax rate on trading income is 12.5%, the lowest rate in the European Union. Ireland also provides a tax credit of 20% of capital and revenue spend on qualifying R&D.

The latest National Development Plan commits over €20 billion investment to enterprise, science and innovation programmes, and a young, vibrant and educated workforce with a high proportion of advanced degree holders fuels Ireland's strong, knowledge-based economy.

With 13 offices in Ireland and a network of over 30 international offices reaching into more than 60 countries, we offer world-class expertise and support, including a range of professional services in areas such as international sales, venture capital, technology benchmarking, human resource development and sector-specific knowledge.

**Further information** is available at [www.enterprise-ireland.com](http://www.enterprise-ireland.com)

**Biotechnology Ireland** [www.biotechnologyireland.com](http://www.biotechnologyireland.com)

**Pharmachem Ireland (IBEC):** [www.pharmachemicalireland.ie](http://www.pharmachemicalireland.ie)

**IPHA (Irish Pharmaceutical Healthcare Association):** [www.ipha.ie](http://www.ipha.ie)

**European Generic Pharmaceutical Association:** [www.egagenerics.com](http://www.egagenerics.com)

**Science Foundation Ireland:** [www.sfi.ie](http://www.sfi.ie)

**Irish BioIndustry Association:** [www.ibec.ie/ibia](http://www.ibec.ie/ibia)

**IDA Ireland:** [www.idaireland.com](http://www.idaireland.com)

## PHARMACEUTICAL SOLUTIONS MAP

### DRUG DEVELOPMENT / BIOTECH

**Drug discovery**  
**Drug delivery**  
**Enabling technologies**

AGI Therapeutics plc  
Cellix Ltd  
Genable Technologies Ltd  
Luxcel Biosciences Ltd  
Newport Pharmaceuticals Ltd  
Merrion Pharmaceuticals Ltd  
Opsona Therapeutics Ltd  
Pharmatrin Ltd  
Sigmoid Pharma Ltd

### PHARMA SERVICES

**CROs**  
**Laboratory equipment/supplies**

Allergy Standards Ltd  
Berand Neuropharmacology  
Biostor Ireland Ltd  
Clinical Trial Endpoint Ltd  
ICON Research  
IdentiGEN Ltd  
Kneat Solutions Ltd  
Life Scientific Ltd  
Pharmaflow Ltd  
Protectas Health Ltd  
Real Regulatory Ltd  
Shandon Clinical Trials Ltd

### PHARMA / VETPHARMA

**Finished products**  
**incl. nutraceuticals and cosmetics**

Agriway Ltd  
Alimentary Health Ltd  
Chanelle Group  
Cross Vetpharm Group Ltd  
Eirgen Pharma Ltd  
Europharma Concepts Ltd  
Foran Chemicals Ltd  
Interchem (Ireland) Ltd  
NutriScience Ltd  
Ovelle Pharmaceuticals  
Pharmaplaz Ltd  
Ricesteele Manufacturing Ltd  
Thoroughbred Remedies Manufacturing Ltd  
Uniblock Ltd  
Univet Ltd

### IT

Automsoft International Ltd  
Brentech Data Systems Ltd  
Campbell Informatics Ltd  
CompuCal Software Solutions  
Crest Solutions Ltd  
Firecrest Clinical Ltd  
GxP Systems Ltd  
Helix Health Ltd  
IMEC Technologies  
Kinematik Ltd  
Orbis Information Systems  
Performance Fluid Dynamics Ltd  
PMI Software Ltd  
Qumas Ltd  
Seabrook Research Ltd  
Softtrace Ltd  
Statistical Solutions Ltd  
Zenith Technologies Ltd

### CHEMICALS

**Fine chemicals (API, intermediates, catalysts, reactants, etc.)**  
**Plant protection products**  
**Lubricants**  
**Detergents**  
**Sterilising tablets**

Arran Chemical Company  
Auxiliary Chemicals t/a PT Technologies Europe  
Barclay Chemicals Manufacturing Ltd  
Celtic Catalysts Teo  
Hygeia Chemicals Ltd  
Medentech Ltd  
Metpro Ltd  
Micro-Bio Ireland Ltd  
Servem Ltd  
Topchem Laboratories Ltd

### NUTRITION

**Nutritional supplements**  
**Vitamins/Minerals**  
**Homeopathic**

Beeline Healthcare  
Hangover Prevention Technologies Ltd  
New Vistas Healthcare Ltd  
Sona Nutrition Ltd

## COMPANY NAME

## DESCRIPTION

## WEBSITE

AGI Therapeutics plc	Development and commercialisation of differentiated drug products for gastrointestinal (GI) diseases and disorders.	<a href="http://www.agitherapeutics.com">www.agitherapeutics.com</a>
Agrivay Ltd	Food ingredients and chemical related products manufacturer	<a href="http://www.carbon.ie">www.carbon.ie</a>
Alimentary Health Ltd	Discovery, development and commercialisation of proprietary probiotic and pharmabiotic treatments for gastrointestinal disorders and other inflammatory conditions	<a href="http://www.alimentaryhealth.ie">www.alimentaryhealth.ie</a>
Allergy Standards Ltd	Manufacturer of standards for testing a wide range of products to determine their suitability for asthmatics and individuals with associated allergies	<a href="http://www.allergystandards.com">www.allergystandards.com</a>
Arran Chemical Company	Producer of fine chemicals for pharmaceuticals, cosmetics, detergents and soaps manufacture	<a href="http://www.arranchemical.ie">www.arranchemical.ie</a>
Automsoft International Ltd	Developer of automation software for the processing, manufacturing and utility industries	<a href="http://www.automsoft.com">www.automsoft.com</a>
Auxiliary Chemicals t/a PT Technologies Europe	Manufacturer of environmentally responsible cleaning solvents and lubricants	<a href="http://www.pttecheurope.com">www.pttecheurope.com</a>
Barclay Chemicals Manufacturing Ltd	Manufacturer of agri-chemicals including herbicides, insecticides, fungicides, growth regulators and trace elements	<a href="http://www.barclay.ie">www.barclay.ie</a>
Beeline Healthcare	Manufacturer of natural health products, such as vitamins and food supplements	<a href="http://www.beelinehealthcare.com">www.beelinehealthcare.com</a>
Berand Neuropharmacology	Preclinical drug research company providing in-vivo neuropharmacology and neurobiology services	<a href="http://www.berand.ie">www.berand.ie</a>
Biostor Ireland Ltd	Biorepository for temperature critical storage of biomaterials	<a href="http://www.biostor.eu">www.biostor.eu</a>
Brentech Data Systems Ltd	Developer of IT solutions for distribution management	<a href="http://www.bds.ie">www.bds.ie</a>
Campbell Informatics Ltd	Developer of engineering and validation data management software	<a href="http://www.campbellinformatics.com">www.campbellinformatics.com</a>
Cellix Ltd	Developer of enabling technologies for drug discovery specifically in the area of micro-fluidics	<a href="http://www.cellixtd.com">www.cellixtd.com</a>
Celtic Catalysts Teo	Supplier of fine chemicals, specifically P-chiral catalysts for use in chemical processes such as pharmaceutical manufacture	<a href="http://www.celticcatalysts.com">www.celticcatalysts.com</a>
Chanelle Group	Generic drug development and manufacture for both human and animal use	<a href="http://www.chanelleveterinary.com">www.chanelleveterinary.com</a>
Clinical Trial Endpoint Ltd	Clinical trial service provider	<a href="http://www.ctep.eu">www.ctep.eu</a>
CompuCal Software Solutions	Developer of performance tools for maintenance and calibration	<a href="http://www.compuicalsolutions.com">www.compuicalsolutions.com</a>
Crest Solutions Ltd	Developer of compliance and data management systems	<a href="http://www.crestsolutions.ie">www.crestsolutions.ie</a>
Cross Vetpharm Group Ltd	Veterinary pharmaceuticals and animal health products manufacturer	<a href="http://www.bimeda.com">www.bimeda.com</a>
Eirgen Pharma Ltd	High potency pharmaceuticals, contract development and manufacture	<a href="http://www.eirgen.com">www.eirgen.com</a>
Europharma Concepts Ltd	Topical cosmetics and pharmaceuticals manufacturer	<a href="http://www.epc.ie">www.epc.ie</a>
Firecrest Clinical Ltd	Developer of innovative web-hosted solutions for clinical trial management	<a href="http://www.firecrestclinical.com">www.firecrestclinical.com</a>
Foran Chemicals Ltd	Generic drug development and manufacture	<a href="http://www.forans.com">www.forans.com</a>
Genable Technologies Ltd	Early stage biotech drug discovery, specifically gene based therapeutic technology	<a href="http://www.genable.ie">www.genable.ie</a>
GxP Systems Ltd	Contract service provider in the areas of Process Control, Validation, IT and MES	<a href="http://www.gxpsystems.com">www.gxpsystems.com</a>
Hangover Prevention Technologies Ltd	Manufacturer of natural supplement with added vitamins to prevent hangovers	<a href="http://www.getalifeline.com">www.getalifeline.com</a>
Helix Health Ltd	Developer of healthcare software solutions specifically for hospitals and pharmacies	<a href="http://www.helixhealth.com">www.helixhealth.com</a>
Hygeia Chemicals Ltd	Manufacturer of agri-chemicals, including plant protection products and sheep-dips	<a href="http://www.hygeia.ie">www.hygeia.ie</a>
ICON Research	Clinical trial service provider	<a href="http://www.icon.ie">www.icon.ie</a>
IdentiGEN Ltd	Veterinary testing laboratory	<a href="http://www.identigen.com">www.identigen.com</a>
IMEC Technologies	Provider of data management systems	<a href="http://www.imec.ie">www.imec.ie</a>
Interchem (Ireland) Ltd	Animal health and pet food products	<a href="http://www.interchem.ie">www.interchem.ie</a>
Kinematik Ltd	Developer of data management systems	<a href="http://www.kinematik.com">www.kinematik.com</a>
Kneat Solutions Ltd	Contract service provider in the area of process engineering	<a href="http://www.kneatsolutions.com">www.kneatsolutions.com</a>
Life Scientific Ltd	Pharmaceutical development and regulatory consultancy	<a href="http://www.lifescientific.com">www.lifescientific.com</a>
Luxcel Biosciences Ltd	Enabling technologies for drug discovery specifically fluorescence and phosphorescence based screening assays	<a href="http://www.luxcel.com">www.luxcel.com</a>
Medentech Ltd	Water purification products and disinfectants manufacturer	<a href="http://www.medentech.com">www.medentech.com</a>
Merrion Pharmaceuticals Ltd	Developer of novel oral drug delivery platforms	<a href="http://www.merrionpharma.com">www.merrionpharma.com</a>
Metpro Ltd	Corrosion protection additives for incorporation into packaging materials (paper, plastics and board)	<a href="http://www.metprogroup.com">www.metprogroup.com</a>
Micro-Bio Ireland Ltd	Bulk chemical manufacturer	<a href="http://www.micro-bio.ie">www.micro-bio.ie</a>
New Vistas Healthcare Ltd	Homeopathic and herbal medicines manufacturer	<a href="http://www.newvistashealthcare.com">www.newvistashealthcare.com</a>
Newport Pharmaceuticals Ltd	Development of pharmaceutical products for treatment of immunological disorders	<a href="http://www.newportpharmaceuticals.com">www.newportpharmaceuticals.com</a>
NutriScience Ltd	Equine and human food supplements manufacturer	<a href="http://www.nutri-science.net">www.nutri-science.net</a>
Opsona Therapeutics Ltd	Novel drug development company specialising in the human immune system	<a href="http://www.opsona.com">www.opsona.com</a>
Orbis Information Systems	Contract service provider in the area of data management	<a href="http://www.orb-is.com">www.orb-is.com</a>
Ovelle Pharmaceuticals	Manufacturer of branded and generic pharmaceutical products for topical use	<a href="http://www.ovelle.ie">www.ovelle.ie</a>
Performance Fluid Dynamics Ltd	Provider of reaction modelling and process development software	<a href="http://www.scale-up.com">www.scale-up.com</a>
Pharmaflow Ltd	Contract packing and manufacturing services	<a href="http://www.pharmaflow.net">www.pharmaflow.net</a>
Pharmaplaz Ltd	Contract development and manufacture of finished pharmaceutical products	<a href="http://www.pharmaplaz.com">www.pharmaplaz.com</a>
Pharmatrin Ltd	Early stage drug discovery specifically small molecule new chemical entities (NCEs)	<a href="http://www.pharmatrin.com">www.pharmatrin.com</a>
PMI Software Ltd	Developer of software solutions for engineering, facilities and health and safety applications	<a href="http://www.pmisoftware.com">www.pmisoftware.com</a>
Protectas Health Ltd	Stem and white cell collection and storage for the equine industry	<a href="http://www.protectashealth.com">www.protectashealth.com</a>
Qumas Ltd	Software developer and service provider in the area of enterprise compliance	<a href="http://www.qumas.com">www.qumas.com</a>
Real Regulatory Ltd	European and US Regulatory Affairs and Quality Assurance consultancy	<a href="http://www.realregulatory.ie">www.realregulatory.ie</a>
Ricesteele Manufacturing Ltd	Manufacturer of OTC pharmaceutical products	<a href="http://www.ricesteele.com">www.ricesteele.com</a>
Seabrook Research Ltd	Contract services provider of IT solutions in the area of electronic quality management systems	<a href="http://www.seabrook.ie">www.seabrook.ie</a>
Servem Ltd	Manufacturer of a range of rodent bait and insecticides	<a href="http://www.servemlimited.com">www.servemlimited.com</a>
Shandon Clinical Trials Ltd	Clinical trials service provider	<a href="http://www.shandonclinic.com">www.shandonclinic.com</a>
Sigmoid Pharma Ltd	Development of drug delivery platforms	<a href="http://www.sigmoidpharma.com">www.sigmoidpharma.com</a>
Softtrace Ltd	Developer of cost effective traceability and quality management solutions	<a href="http://www.soft-trace.com">www.soft-trace.com</a>
Sona Nutrition Ltd	Manufacturer of vitamins, minerals, herbal remedies and dietary supplements	<a href="http://www.sona.ie">www.sona.ie</a>
Statistical Solutions Ltd	Developer and distributor of unique statistical software applications	<a href="http://www.statsol.ie">www.statsol.ie</a>
Thoroughbred Remedies Manufacturing Ltd	Manufacturer of veterinary products, such as animal feeds and food supplements	<a href="http://www.tri-ireland.ie">www.tri-ireland.ie</a>
Topchem Laboratories Ltd	Contract process/product development and manufacture for the pharmaceutical industry	<a href="http://www.topchem.ie">www.topchem.ie</a>
Uniblock Ltd	Manufacturer of mineral trace element blocks for livestock	<a href="http://www.uniblock.ie">www.uniblock.ie</a>
Univet Ltd	Manufacturer of veterinary pharmaceuticals and animal health products	<a href="http://www.univet.net">www.univet.net</a>
Zenith Technologies Ltd	Contract service provider of advanced process measurement, automation and MES solutions	<a href="http://www.zenithtechnologies.com">www.zenithtechnologies.com</a>