

aconitum



MEDICINES PRODUCER

2011

History

1999 > 2000 > 2001 > 2002 > 2003 > 2004 > 2005 > 2006 > 2007 > 2008 > 2009 > 2010 > 2011

- JSC „Aconitum“ was founded

History

1999 > 2000 > 2001 > 2002 > 2003 > 2004 > 2005 > 2006 > 2007 > 2008 > 2009 > 2010 > 2011

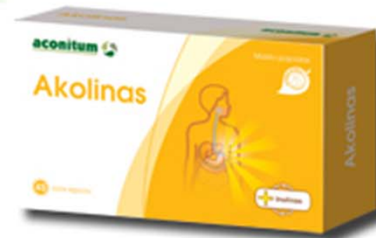
- The first *homeopathic medicines* were registered



History

1999 > 2000 > 2001 > 2002 > 2003 > 2004 > 2005 > 2006 > 2007 > 2008 > 2009 > 2010 > 2011

- Beginning of *food supplement* production



History

1999 > 2000 > 2001 > 2002 > 2003 > 2004 > 2005 > 2006 > 2007 > 2008 > 2009 > 2010 > 2011

- Company became a member of *European Self-Medication Industry Association*



History



- Good Manufacturing Practice (GMP) certificate was aquired

History

1999 > 2000 > 2001 > 2002 > 2003 > 2004 > 2005 > 2006 > 2007 > 2008 > 2009 > 2010 > 2011

- The first products were *exported*
- The European system of manufacture standards (HACCP) was implemented



History

1999 > 2000 > 2001 > 2002 > 2003 > 2004 > 2005 > 2006 > 2007 > 2008 > 2009 > 2010 > 2011



- „Innovative enterprise 2007“ award
- *Magnesium + B6 Complex* - „Product of the Year 2007“ gold medal award
- New department for *clinical trials* was founded

History

1999 > 2000 > 2001 > 2002 > 2003 > 2004 > 2005 > 2006 > 2007 > 2008 > 2009 > 2010 > 2011

- Microbiological *laboratory* was established
- Three „Product of the Year” gold medal awards
- The first RX-medicine – „VINPOCETINE-aconitum” (brain blood flow therapy)



- Participation in the international project for *clinical trials – Eureka*



History

1999 > 2000 > 2001 > 2002 > 2003 > 2004 > 2005 > 2006 > 2007 > 2008 > 2009 > 2010 > 2011

- *Two OTC medicines – Livosil (liver therapy) and Glucosan (osteoarthritis treatment)*
- New manufacturing plant in Kaunas FEZ
- Joint venture *AkonitPharma* in Belarus was founded

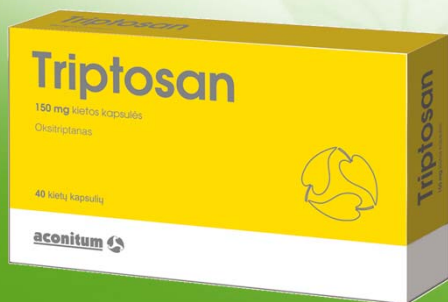


History

1999 > 2000 > 2001 > 2002 > 2003 > 2004 > 2005 > 2006 > 2007 > 2008 > 2009 > 2010 > 2011



- Awarded “Lithuanian Best Exporter of the Year 2010”
- New medicines:
 - Triptosan (Rx) *antidepressant* of unique composition
 - Ginkobil (*ginkgo biloba* for cerebral blood flow therapy)
 - Bilberin (*bilberry extract* for eye treatment)
 - Venosan (*horse chetsnut* for venous insufficiency treatment)



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MEDICINES PRODUCER

QUALITY

PROGRESS

INNOVATION

LEARNING

SUSTAINABILITY

Quality control

- Good Manufacturing Practice (GMP) certificate
- Hazard Analysis and Critical Control Point (HACCP) system
- State Medicines Control Agency of Lithuania
- State Food and Veterinary Service
- Internal and external audits

Quality assurance in production

- Production premises fulfil highest quality requirements
 - Water purification and air filtration system
Millipore
- *In-process-control*
- Plasma emission spectrophotometric device allows detection of extremely small heavy metal particles

Quality assurance in supply

Highest quality materials are bought from:

- United Kingdom
- Switzerland
- Germany
- Italy
- other



Integration of business and science



- International *Eureka* project with Lithuanian University of Health Sciences (LUHS)
 - Ginkgo Biloba clinical trials with diabetes patients
- Training platform for LUHS students in company premises
- *Cluster* of science, technology and clinical research

Production

- New production plant in Kaunas FEZ
- Hi-tech equipment with double quality control system
 - *In-process-control* (tableting and capsulation)
 - AL-AL Blistering
 - Granulation for tableting and capsulation
- Highly increased productivity
- Two fully automated blister filling and packaging lines *Uhlmann*

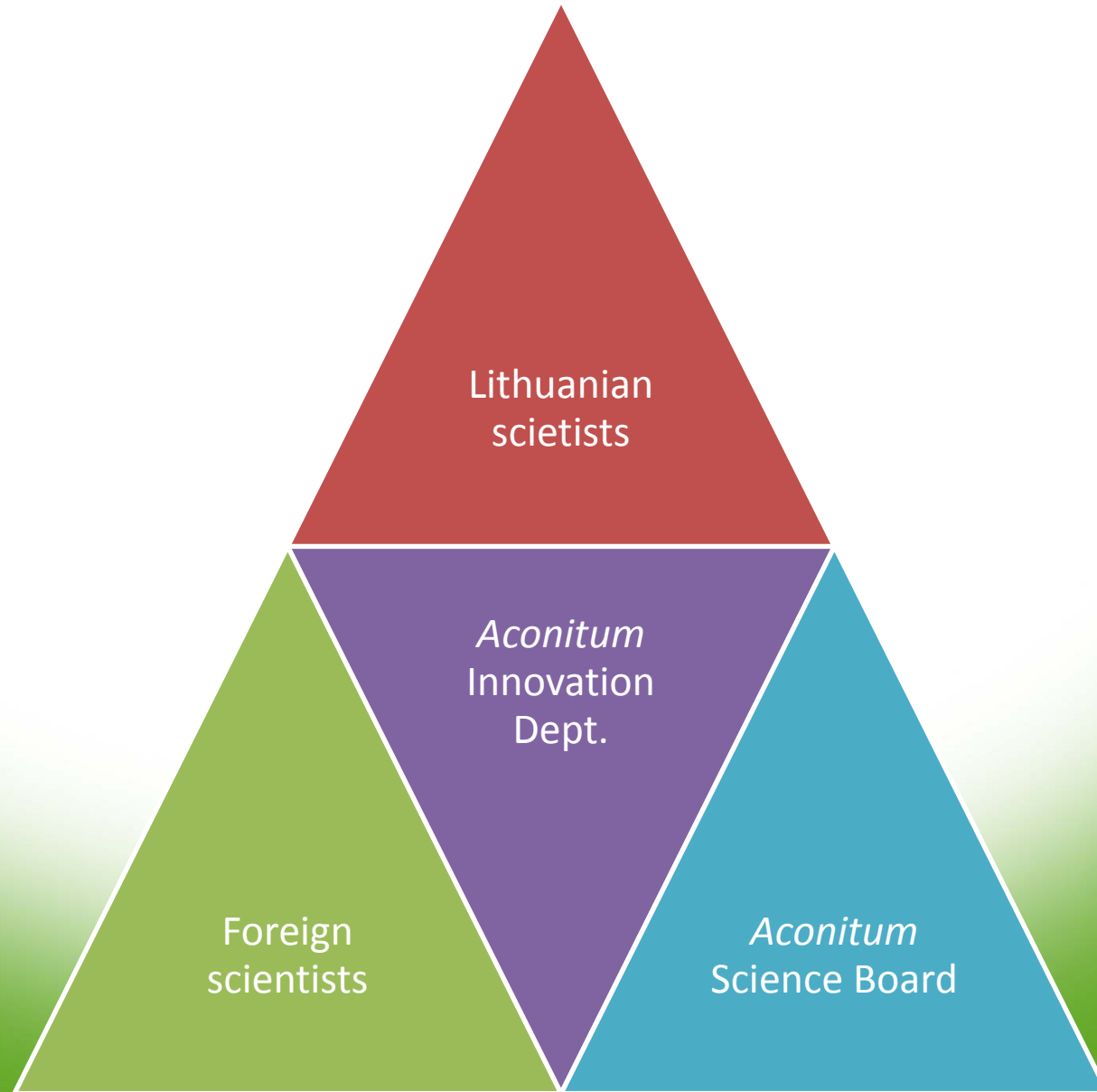


EU structural funds

- Implementation of 10 projects
- *Business development:*
 - Modernization of manufacturing facilities (“Leader LT”).
 - Employee qualification courses (“Human Resources Development in Enterprises”).
 - Export expansion (“New opportunities”).
- *Innovation:*
 - Innovative herbal products feasibility study (“Idea LT”).
 - New drugs from bioactive materials (“Intellect LT”).
 - Pharmaceutical R&D base development (“Intellect LT +”).

Development of new medicine

INNOVATION



Lithuanian
scientists

Aconitum
Innovation
Dept.

Foreign
scientists

Aconitum
Science Board

Employee training

- Technological training in:
 - Germany
 - Latvia
 - Italy
 - Singapore
 - South Korea
- Employee training programme financed by ES funds



Renewable energy

- The first pharmaceutical company to implement such green energy project in Eastern and Central Europe
- Renewable energy supply system is being installed
 - Reduce electricity and natural gas consumption by 80 %
 - Reduce CO₂ emission by 81 000 m³
(equals taking ~ 1200 cars off the road every year)



Solar power collectors produce up to 700 thousand liters of hot water per year

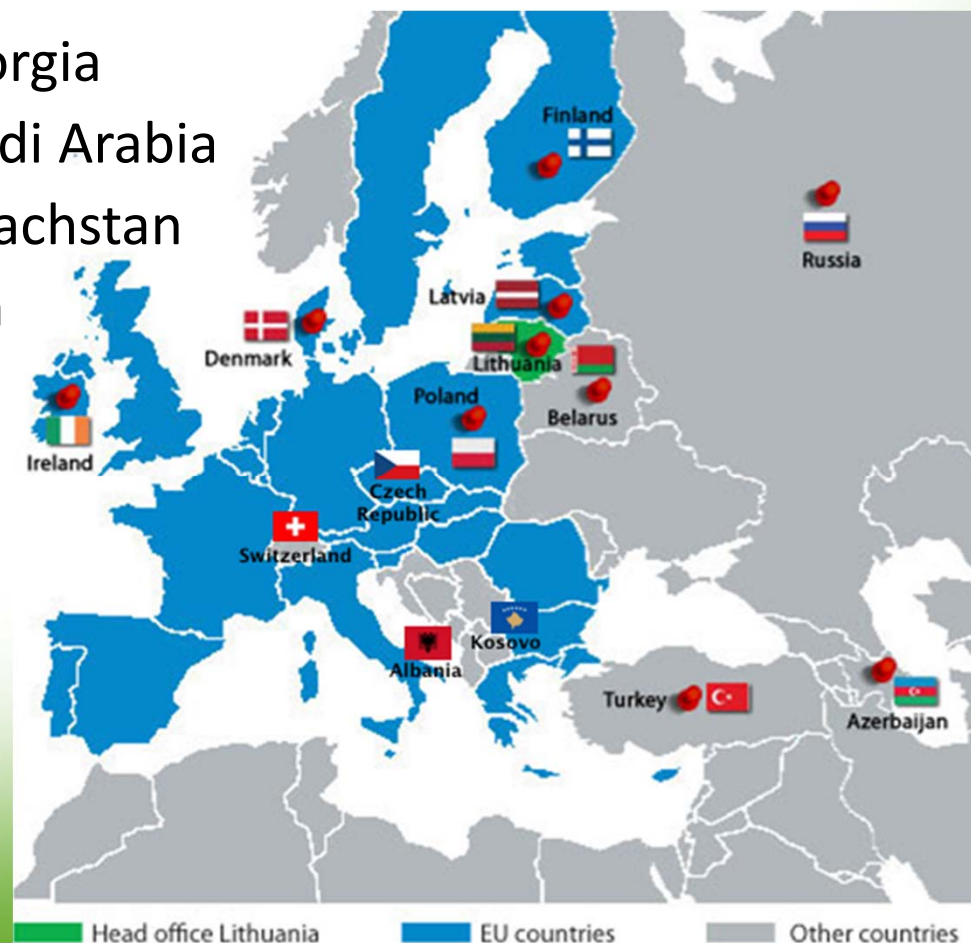
Export expansion

Current export partners:

- Finland
- Denmark
- Ireland
- Switzerland
- Slovakia
- Portugal
- Russia
- Belarus
- Turkey
- Albania
- Azerbaijan
- Vietnam
- Thailand

Future partners (final negotiation phase):

- Germany
- Serbia
- Georgia
- Saudi Arabia
- Kazakhstan
- Iran



What we offer to foreign partners

- 18 *medicines*
- 8 *homeopathic medicines*
- 75 food supplements
- *Contract manufacturing*
- *CTD dossier* preparation
- Services of chemical analytical and microbiological *laboratories*

Contract manufacturing

We can:

- Help you reduce costs
- Reduce capital investment
- Offer you our expertise and know how
- In-house R&D base

Contract manufacturing

Manufacturing

- Tableting (with full automated process control)
- Tablet coating (with Eudragit and other enteric film coating systems)
- Capsulation (with full automated process control)

Primary packaging

- Blistering of pills, hard and soft capsules (Alu-PVC, Alu-PVdC, Alu-Alu)
- Filling of liquid medicine forms into the bottles

Secondary packaging

- Packaging of liquid, soft and solid pharmaceutical forms to the external package.

Stamping/labeling

- Pasting of stickers on external package of liquid and soft drug products.
- Labeling external package of liquid and soft drug products.
- Inserting leaflets into external package of liquid and soft drug products.

Research and Testing Services

- Chemical analytical laboratory
- Microbiological laboratory

Outlicensing (CTD dossiers)

- *On request* product formulation and CTD preparation
- Existing products for marketing authorization:
 - Vinpocetine 5 mg capsules
 - 5-HTP (Griffonia simplicifolia) 150 mg capsules
 - Glucosamine 750 mg capsules
 - Milk thistle (Silybum marianum) 140 mg capsules
 - Ginkgo (Ginkgo biloba) 80 mg capsules
 - Bilberry (Vaccinium myrtillus) 160 mg capsules
 - Soy isoflavones (Glycine max) 40 mg capsules
 - Horse chestnut (Aesculus hippocastanum) 250 mg capsules

Our vision until 2015

- 40 brands of medicines and 80 brands of food supplements in Lithuanian market
- Expansion abroad
 - International medicines development projects
 - Subsidiary establishment in other countries
- Installation of new technological processes
- Full implementation of green company concept

Thank you for your attention!

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www.aconitum.lt

www.gyvenksveikai.lt

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