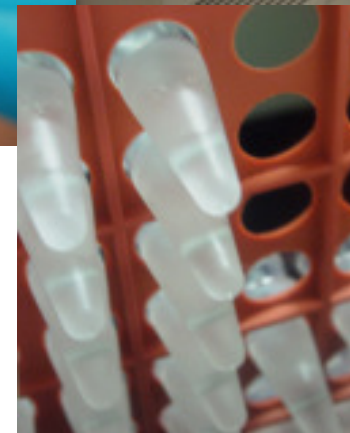


**AJ Roboscreen GmbH  
company presentation**

**A member of Analytik Jena**

**kits, reagents, and consumables for virus and gene expression quantification and early diagnosis of neurodegenerative disorders**



## History

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- 09/2000** Foundation as Roboscreen Gesellschaft für molekulare Biotechnologie mbH
- 05/2001** Start of operative business (molecular diagnostics, close proximity to the municipal „St. Georg“ hospital, 4 employees)
- 08/2001** Closure of 1<sup>st</sup> / last financial round
- 01/2002** Start of protein diagnostics facility, kit development BSE/Neurodegenerative disorders
- 07/2003** DIN EN ISO 9001 : 2000-12 and DIN EN ISO 13485 : 2001 certificates (BVQI)
- 11/2004** EU Approval of Roboscreen BetaPrion® BSE EIATest
- 01/2005** 700 m<sup>2</sup> production and laboratory space (BSL: S1, L3\*\*), 13 employees, export to more than 40 countries

## History

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- 03/2005** Analytik Jena AG acquires 50,3% share of Roboscreen
- 06/2005** Roboscreen changes the company name to AJ Roboscreen GmbH and became a member of the AJ „bio solutions“ business unit
- 01/2007** 15 employees (6 Ph.D.; 9 lab technicians and assistants), 3 practitioners, DIN EN ISO 9001 : 2000 certificate (mdc)
- 05/2008** 18 employees, production and laboratory space expanded to 1000 m<sup>2</sup>

# Daughter company of Analytik Jena

Analytik Jena – A worldwide operating, stock exchange-listed corporation.

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## Analytik Jena AG

### Daughter companies:

#### Germany (R&D/ Prod./ Sales):

AJ Roboscreen,	51,0%
AJ Innuscreen,	65,0%
AJ Blomesystem,	75,2%
AJZ Engineering,	49,0%
AJ Cybertron,	100,0%
AJ IDC,	100,0%
AJ eBiochip,	70,0 %

#### International (Sales/ Purchasing):

Blome PTE Australien,	50,0%
AJ Perichrom,	51,5%
Analytik Jena de Brasil	50,0%
Analytik Jena Moskau	100,0%
AJB Nederland,	100,0%
AJ USA,	100,0%
AJ Shanghai Instr.,	100,0%



### **Branches:**

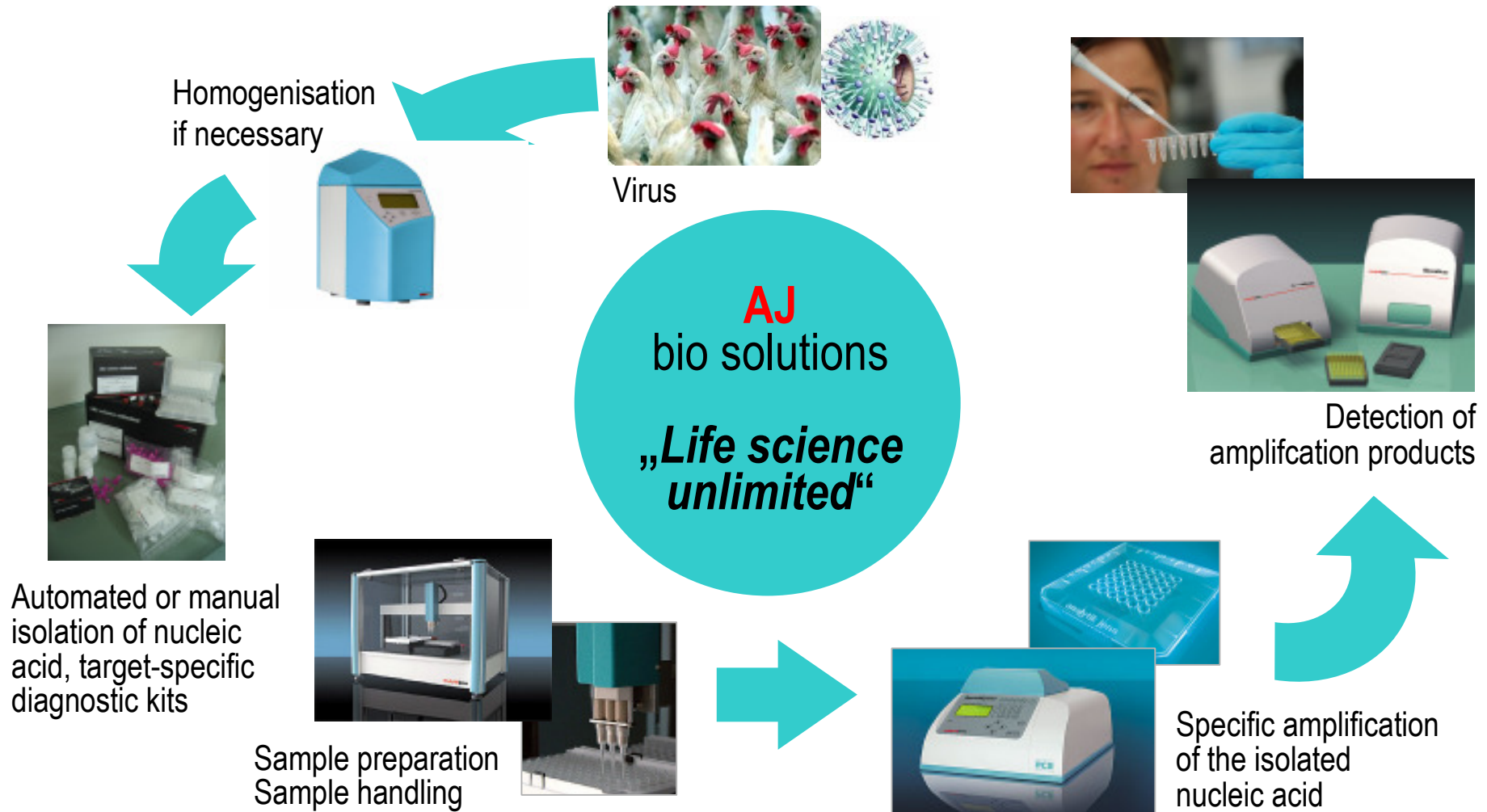
NL Eisfeld (DOCTER-Germany),  
NL Überlingen (Bodensee)

### **Foreign Representation:**

Russia, USA, Egypt, China, Thailand

# Complete solutions for molecular diagnostics

**Example:** AJ Products for H5N1 detection (Bird Flu)



# Industrial propertiey rights and trademarks

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## **12x Patents and patent applications:**

e.g. DE 196 24 562, DE 198 40 531

## **3x Registered patterns**

No. 201 11 308.2, No. 202 10 900.3, No. 201 17 746.3

## **6x Trademarks:**

RoboGene<sup>®</sup>, BetaPrion<sup>®</sup>, RoboScreen<sup>®</sup>, RoboStrip<sup>®</sup>,  
Robozyme<sup>®</sup>, TripleHyb<sup>®</sup>

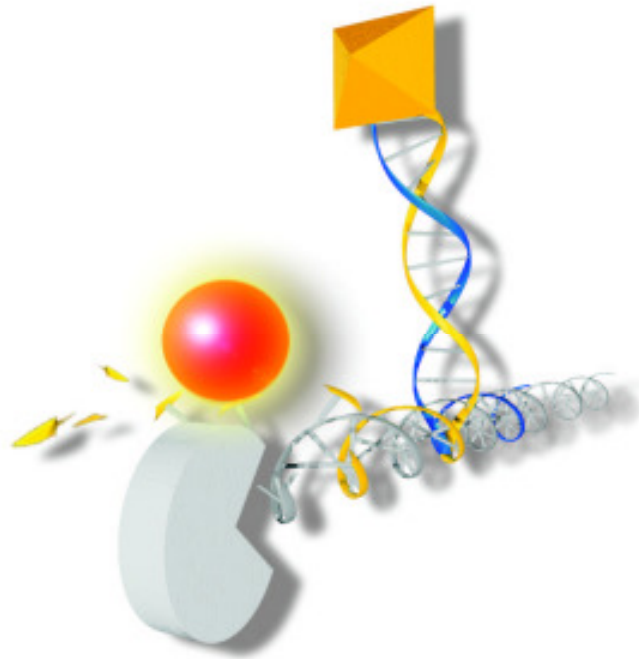
## KNOW HOW TRANSFER AND LICENCING

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***Intelligent Tube Technology.*** Reaction vessels coated with stabilized nucleic acids.

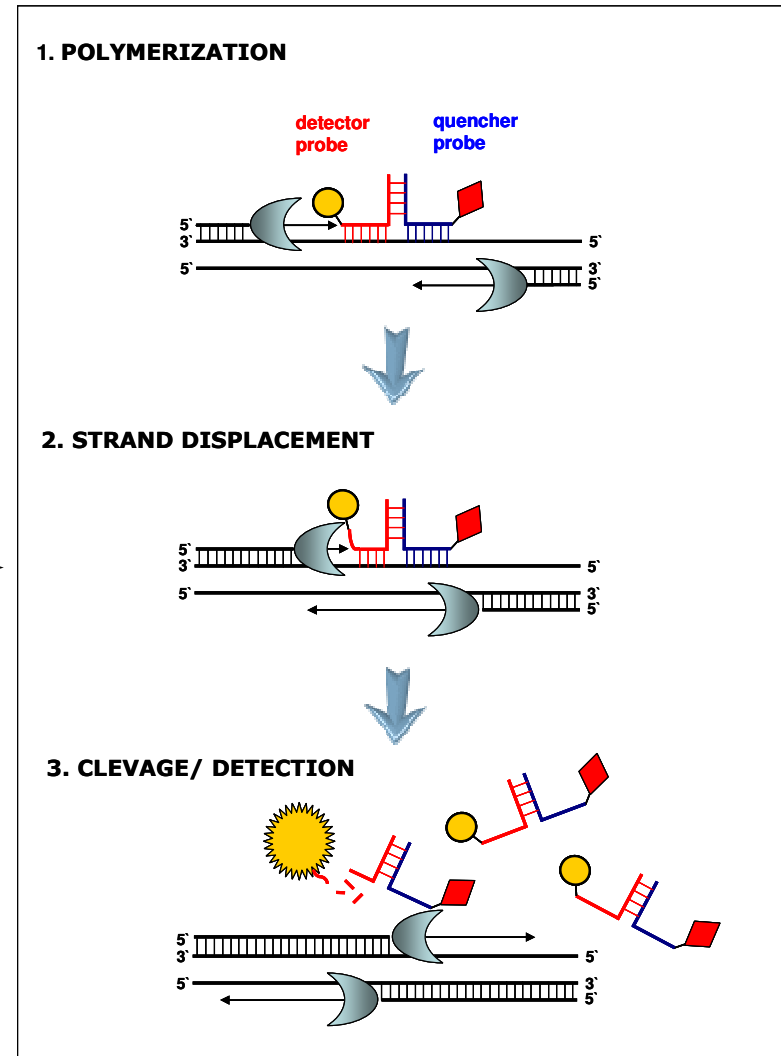
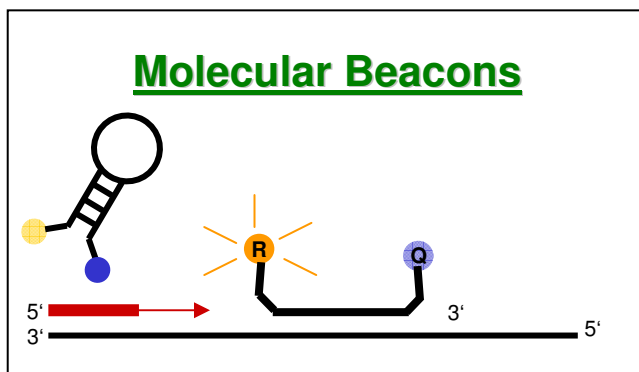
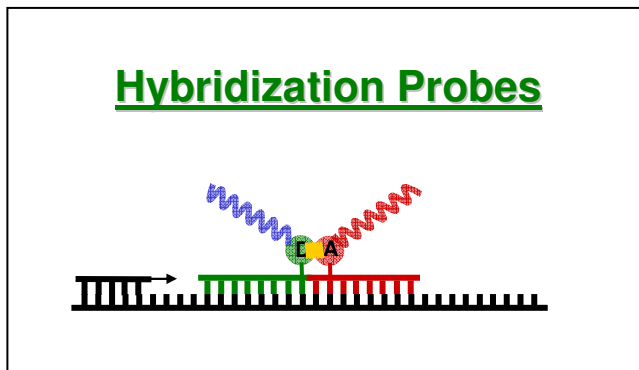
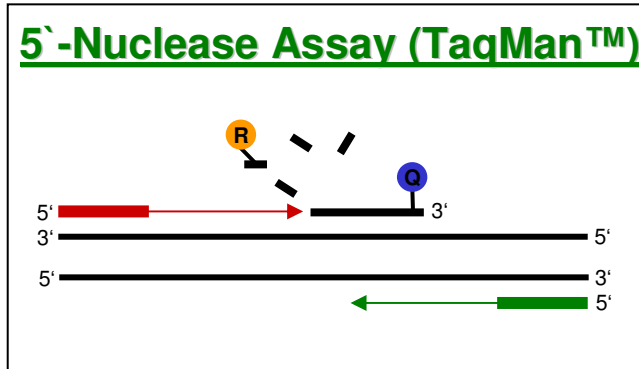
***TripleHyb® technology.*** A new, company-owned fluorescence real-time PCR detection format which combines features of TaqMan®, molecular beacons and hybridization probes format for real-time PCR and exploits a triple DNA detection complex, highly suited for target quantification and genetic polymorphism analysis.

***INSTANT technology.*** DNA/RNA extraction reagents supplied with stabilized carrier nucleic acids and internal controls

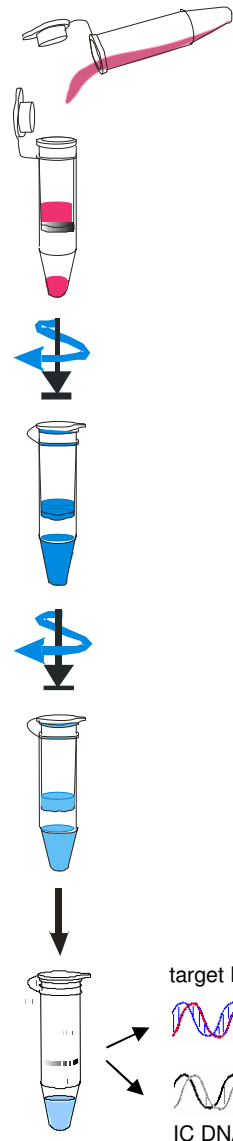


# **TripleHyb<sup>®</sup> - A novel detection format for real-time fluorescence PCR**

# Three in one: TripleHyb<sup>®</sup> probe format

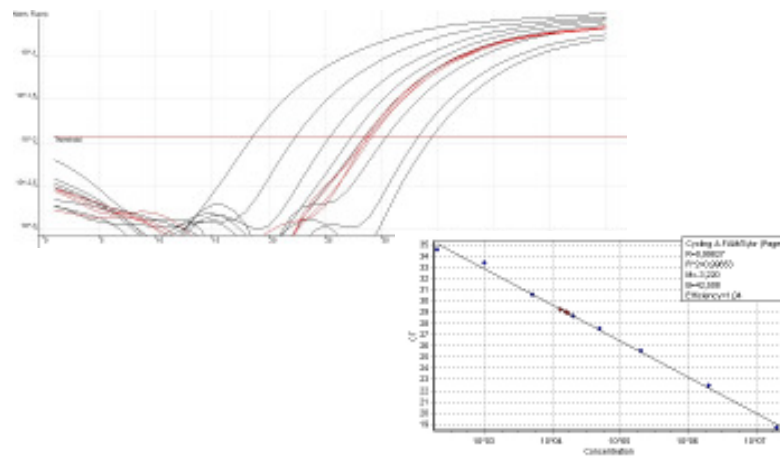


# Products for molecular diagnostics



**InnuPREP/INSTANT** Kits for isolation of genomic DNA, total RNA, microbial nucleic acids, clean-up systems for plasmids, plants, food, forensics and PCR amplicons with integrated internal controls

**RoboGene**<sup>®</sup> tests and reagents for real-time PCR/RT-PCR in virology, microbiology, and tumor research & diagnostics for use with the majority of real-time instruments on the market



# Products for virology & microbiology

Use with different real-time PCR instrument platforms

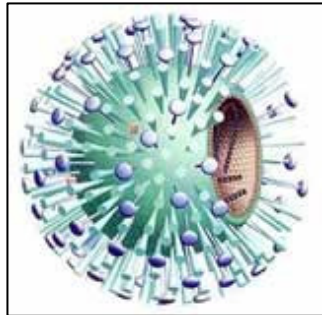
**aj**ROBOSCREEN



# Products for molecular diagnostics

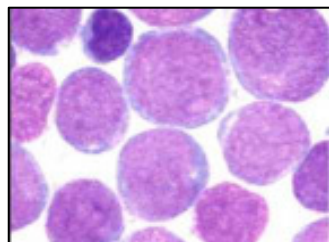
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## APPLICATIONS



### Virology / microbiology

RoboGene® kits and reagents for virus research (e.g. Bird Flu (BF) H5N1, HBV, HCV, HDV, HIV-1, HCMV, EBV, Parvo B19, SARS), and bacteria quantification (e.g. Mycobacterium tuberculosis, Helicobacter)



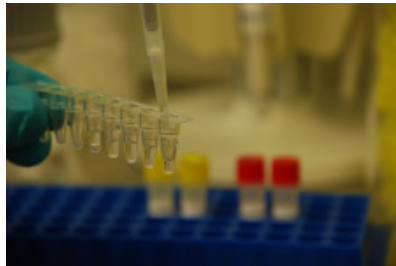
### Tumor diagnostics

RoboGene® quantitative real-time PCR kits for detection of minimal residual disease in hematology/oncology (e.g. M-BCR, t(9;22); PML-RARA, t(15;17), Follicular Lymphoma, MBR, t(14;18), Tyrosinase, Her2-Neu (c-erbB2), Multidrug resistance, Housekeeping genes, genetic polymorphism detection)

# Products for molecular diagnostics

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## APPLICATIONS



### Pharmaceutical / University research

Tumor research on gene expression level (apoptosis, inhibitors of apoptosis, cell cycle), Neuronal receptor research (ATP receptors, NMDA receptors), Genomic DNA markers (Mitochondrial marker 16S rRNA)



### Veterinary diagnostics

RoboGene® Bird Flu (BF) H5N1 Screening Test equipped with optimized RNA purification kit and protocols for different clinical specimen (tissues, plasma, swabs, stool), Genotyping of Tamiflu-resistant H5N1



## CUSTOMIZED SERVICES

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- Contract high-throughput gene expression quantification
- Assay development (TripleHyb<sup>®</sup> or TaqMan<sup>®</sup>)
- Standard (DNA/RNA) development, manufacture, calibration and stabilization
- Molecular biological training



## Products for protein analysis

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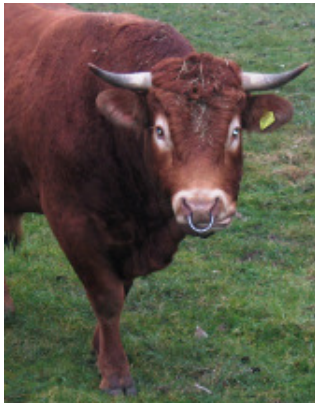
ELISAs and immunohistochemical kits for detection of Transmissible Spongiform Encephalopathy (TSE) diseases, and early diagnosis of M. Alzheimer and M. Parkinson



# Products for protein analysis

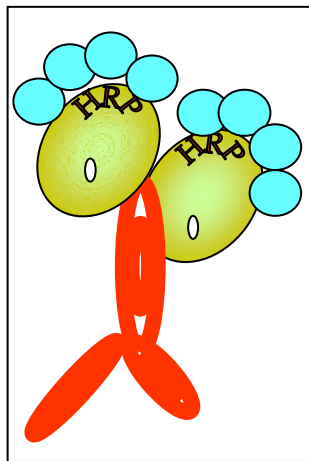
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## APPLICATIONS



### Food

BetaPrion® BSE EIA Test Kit (short protocol, vers. 2.0), approved in the EU and Germany (FLI-B 393); most rapid BSE ELISA test in the market, assay time: 1h 40 min)



### Fine chemicals

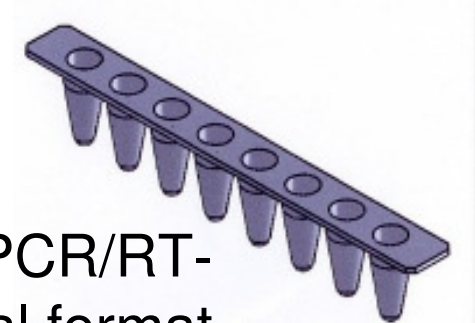
Robozyme® Recombinant human and animal proteins

Monoclonal & polyclonal antibodies for neurodegenerative disorders research (BSE, CJD, CWD, Scrapie, M. Alzheimer, M. Parkinson), inflammation and pain research, and autoimmunity diagnostics

Molecular biological reagents (buffers, enzymes and other additives)

## Plastic consumable supplies

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- RoboStrip<sup>®</sup> polycarbonate 8-well tubes/strips for PCR/RT-PCR/iPCR for use with the majority of conventional format 96-well cyclers and real-time instruments
- Control tubes for monitoring extraction of sample, inhibition in the sample, accuracy and precision provided as “Intelligent Tubes”
- Strepavidine and antibody coated microtiter plates and tubes
- Tubes containing controls for monitoring extraction of sample, inhibition in the sample, and accuracy of results

## Research & Development projects

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- 01/06-12/08**      **An integrated immunological and cellular strategy for sensitive TSE diagnosis and strain discrimination (6<sup>th</sup> Framework Program of EU, project 018805)**
- 09/06-09/09**      **Sensitive and differential blood and cerebrospinal fluid test for neurodegenerative dementia diagnosis (NEUROSCREEN) (6<sup>th</sup> Framework Program of EU, project 037719 )**
- 09/07-01/11**      **Microfluidic system for integrated analysis of nucleic acids for real time control of fermentational manufacture of drugs (MINAMED) (BMBF)**
- 08/08-07/10**      **Development of a method for in vitro generation of monoclonal antibodies with the help of dendritic cells (exemplary for prion proteins) [Evi-MAk] (BMBF, project 0315279B )**

# Reference customers



## Your way to contact us:

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