

## LGC

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LGC is an independent, science-based service company providing chemical, biochemical and DNA based analysis. Europe's largest, independent analytical laboratory, LGC's services include analytical testing, research, consultancy, validation, training and knowledge transfer.

LGC serves markets in both the public and private sectors including: food and agriculture, oil and chemicals, pharmaceuticals, environment, healthcare, life sciences and law enforcement. Our state-of-the-art laboratories offer analytical outsourcing services particularly to the chemical and pharmaceutical markets and our market-leading analytical reference standards operation provides reference materials, cell lines and cultures from the leading international providers to customers throughout Europe.

With headquarters in south west London, specialist laboratories across the UK and an expanding network of regional offices throughout Europe, LGC maintains a position as a centre of excellence at the forefront of analytical science.

### Recent Publications by LGC:



- [Proteomic analysis of the adaptive response of Salmonella enterica serovar Typhimurium to growth under anaerobic conditions.](#)

*In order to survive in the host and initiate infection, Salmonella...* 2nd October, 2009

Department for Bioanalysis and Horizon Technologies, Centre for- Microbiology. 2009 Jul;155(Pt 7):2429-41. Epub 2009 Apr 23. ([DOI Direct Link](#))

- [Capabilities of mixed-mode liquid chromatography coupled to inductively coupled plasma mass spectrometry for the simultaneous speciation analysis of inorganic and organically-bound selenium.](#)

*This work investigates for the first time the potential of mixed-mode...* 18th September, 2009

LGC Ltd., Queens Road, Teddington, Middlesex, TW11 0LY, United Kingdom.- J Chromatogr A. 2009 Oct 16;1216(42):7001-6. Epub 2009 Aug 24. ([DOI Direct Link](#))

- [Fully traceable absolute protein quantification of somatropin that allows independent comparison of](#)

[somatropin standards.](#)

*BACKGROUND: Measurement traceability in clinical chemistry is required to...*5th September, 2009  
LGC, Middlesex, Queens Road, Teddington, TW11 0LY, UK.- Clin Chem. 2009 Nov;55(11):1984-90.  
Epub 2009 Sep 3. ([DOI Direct Link](#))

- [Measurement of longitudinal sulfur isotopic variations by laser ablation MC-ICP-MS in single human hair strands.](#)

*A new method for the measurement of longitudinal variations of sulfur...*11th July, 2009  
LGC, Queens Road,- Anal Bioanal Chem. 2009 May;394(1):225-33. Epub 2009 Feb 6. ([DOI Direct Link](#))

- [Improvement of the traceability of reference materials certified for purity: evaluation of a semi-preparative high-performance liquid chromatography approach.](#)

*A semi-preparative high-performance liquid chromatography process was...*2nd July, 2009  
LGC Ltd., Queens Road,- Anal Bioanal Chem. 2009 Aug;394(8):2183-92. Epub 2009 Jul 1. ([DOI Direct Link](#))

- [Interrogation of short tandem repeats using fluorescent probes and melting curve analysis: a step towards rapid DNA identity screening.](#)

*Current forensic DNA profiling methods rely on the analysis of samples at...*15th May, 2009  
Innovation and Support- Forensic Sci Int Genet. 2008 Sep;2(4):333-9. Epub 2008 Jun 10. ([DOI Direct Link](#))

- [Direct comparison of post-28-cycle PCR purification and modified capillary electrophoresis methods with the 34-cycle "low copy number" \(LCN\) method for analysis of trace forensic DNA samples.](#)

*The investigation of samples with low amounts of template DNA remains at...*15th May, 2009  
LGC Forensics, Middlesex, UK.- Forensic Sci Int Genet. 2008 Sep;2(4):318-28. Epub 2008 Jun 13. ([DOI Direct Link](#))

- [Assessment of the repeatability and reproducibility of hydrogen/deuterium exchange mass spectrometry measurements.](#)

*A system to perform automated hydrogen/deuterium exchange mass...*9th May, 2009  
LGC, Queens Road,- Rapid Commun Mass Spectrom. 2008 Dec;22(23):3893-901. ([DOI Direct Link](#))

- [Developing repeatable measurements for reliable analysis of molecules at surfaces using desorption electrospray ionization.](#)

*Desorption electrospray ionization (DESI) is a powerful ambient ionization...*14th March, 2009  
National Physical Laboratory, Teddington, Middlesex TW11 0LW, U.K., and- Anal Chem. 2009 Mar 15;81(6):2286-93. ([DOI Direct Link](#))

- [Study of the effect of sample preparation and cooking on the selenium speciation of selenized potatoes by HPLC with ICP-MS and electrospray ionization MS/MS.](#)

*The efficiency of enzymatic hydrolysis and leaching with water using...*14th February, 2009  
LGC Limited, Queens Road, Teddington, Middlesex, United Kingdom.- J Agric Food Chem. 2009 Jan 14;57(1):38-45. ([DOI Direct Link](#))

- [High accuracy determination of malachite green and leucomalachite green in salmon tissue by exact matching isotope dilution mass spectrometry.](#)

*A high accuracy method for the quantification of malachite green (MG) and...*17th December, 2008  
LGC, Mass Spectrometry, Queens Road, Teddington, Middlesex TW11 0LY, UK.- J Chromatogr B Analyt Technol Biomed Life Sci. 2008 Oct ([DOI Direct Link](#))

- [A comparison of double-focusing sector field ICP-MS, ICP-OES and octopole collision cell ICP-MS for the high-accuracy determination of calcium in human serum.](#)

*Human serum is routinely measured for total calcium content in clinical...*31st October, 2008  
LGC, Queens Road, Teddington, Middlesex TW11 0LY, UK.- Talanta. 2005 Feb 28;65(4):900-6. ([DOI Direct Link](#))

- [HyBeacon probes for rapid DNA sequence detection and allele discrimination.](#)

*HyBeacon probes are single-stranded oligonucleotides with one or more...*20th September, 2008  
LGC, Middlesex, UK.- Methods Mol Biol. 2008;429:171-85. ([DOI Direct Link](#))

- [Standard additions: myth and reality.](#)

*Standard additions is a calibration technique devised to eliminate...*5th September, 2008

**Press Releases on LGC:**

<a href="#">Orchid Cellmark Reports Fourth Quarter and Full Year 2008 Financial Results</a>	16th March, 2009	Orchid Cellmark Inc.	<i>PRINCETON, N.J., March 16 /PRNewswire-FirstCall/ -- Orchid Cellmark Inc. (Nasdaq: ORCH), a leading worldwide provider of identity DNA testing services, today reported its financial results for the</i>
<a href="#">Orchid Cellmark Reports Third Quarter 2008 Financial Results</a>	30th October, 2008	Orchid Cellmark Inc.	<i>PRINCETON, N.J., Oct. 30 /PRNewswire-FirstCall/ -- Orchid Cellmark Inc. (Nasdaq: ORCH), a leading worldwide provider of identity DNA testing services, today reported its financial results for the</i>
<a href="#">Sensorin Raises Equity Financing to Launch Novel Industrial Sensing Venture</a>	21st October, 2008	Sensorin	<i>BURLINGAME, Calif., Oct. 21 /PRNewswire/ -- Sensorin, which is developing and commercializing a novel self-calibrating pH measurement platform for bioprocess applications, today announced the</i>
<a href="#">Orchid Cellmark Reports Second Quarter 2008 Financial Results</a>	31st July, 2008	Orchid Cellmark Inc.	<i>PRINCETON, N.J., July 31 /PRNewswire-FirstCall/ -- Orchid Cellmark Inc. (Nasdaq: ORCH), a leading worldwide provider of identity DNA testing services, today reported its financial results for the</i>
<a href="#">SmartBead places the UltraPlex system with UK's largest, independent</a>	1st October, 2002	Smartbead	<i>SmartBead places the UltraPlex system with UK's largest, independent analytical laboratory 8 October 2002. SmartBead Technologies</i>

**LGC Patents:**



- 7348141- [Hybridization beacon and method of rapid sequence detection and discrimination](#)
- 5883882- [Fault detection in a frequency duplexed system](#)
- 5930682- [Centralized channel selection in a distributed RF antenna system](#)

- 5983070- [Method and system providing increased antenna functionality in a RF distribution system](#)
- 6014546- [Method and system providing RF distribution for fixed wireless local loop service](#)
- 6157810- [Distribution of radio-frequency signals through low bandwidth infrastructures](#)
- 6353600- [Dynamic sectorization in a CDMA cellular system employing centralized base-station architecture](#)
- 6556551- [Multi-frequency pilot beacon for CDMA systems](#)
- 6594496- [Adaptive capacity management in a centralized basestation architecture](#)
- 6771933- [Wireless deployment of bluetooth access points using a distributed antenna architecture](#)
- 6785558- [System and method for distributing wireless communication signals over metropolitan telecommunication networks](#)
- 6801767- [Method and system for distributing multiband wireless communications signals](#)
- 5668562- [Measurement-based method of optimizing the placement of antennas in a RF distribution system](#)

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