

LIST OF PUBLICATIONS

The MCB 1200 instrument is based on MixSep™ magnetic mixing technology covered under U.S. Patents and foreign equivalents owned by Sigris Research, Inc. MCB 1200 and NucliSens® miniMAG® (OEM for bioMeriëux) are identical products developed and manufactured by Sigris Research. Numerous publications attest the versatility and superior purification efficiency obtained by the MixSep process.

1. Evaluation of a rapid method for recovery of norovirus and hepatitis A virus from oysters and blue mussels.
Uhrbrand K, Myrmet M, Maunula L, Vainio K, Trebbien R, Nørrung B, Schultz AC.; J Virol Methods. 2010 Oct;169(1):70-8.
2. An RNAi in silico approach to find an optimal shRNA cocktail against HIV-1.
Méndez-Ortega et al., Virology Journal 2010 7:369.
3. A quantitative real-time PCR method for monitoring Clostridium botulinum type A in rice samples.
Takahashi H, Takakura C, Kimura B.; J Food Prot. 2010 Apr;73(4):688-94.
4. Long-Term Impact of Acyclovir Suppressive Therapy on Genital and Plasma HIV RNA in Tanzanian Women: A Randomized Controlled Trial.
Tanton C, Weiss H. A., Rusizoka M, LeGoff J, Changalucha J, Baisley K, Mugeye K., Everett D, Belec L., Clayton T.C., Ross R.A., Hayes R.J., Watson-Jones D., Journal of Infectious Diseases 2010; 201(9):000–000.
5. Correlation between HIV-1 viral load quantification in plasma, dried blood spots, and dried plasma spots, and dried plasma spots using the Roche COBAS Taqman assay.
Andreotti M, Pirillo M, Guidotti G, Ceffa S, Paturzo G, Germano P, Luhanga R, Chimwaza D, Mancini MG, Marazzi MC, Vella S, Palombi L, Giuliano M.; Clin Virol. 2010 Jan;47(1):4-7.
6. Comparison of different concentration methods for the detection of hepatitis A virus and calicivirus from bottled natural mineral waters.
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7. Collaborative Study to Establish a World Health Organization International Genotype Panel for Parvovirus B19 DNA Nucleic Acid Amplification Technology (NAT)-Based Assays.
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8. Development of efficient DNA isolation procedures for Cryptosporidium and Trichinella PCR detection in fecal samples.
Masny A, Rozej W, Golab E.; Med Dosw Mikrobiol. 2009;61(3):259-65.
9. Clinical evaluation of NucliSENS magnetic extraction and NucliSENS analytical specific reagents for the real-time detection of respiratory syncytial virus (RSV) in paediatric respiratory specimens.
Manji R, Lotlikar M, Zhang F, Ginocchio CC.; J Clin Pathol. 2009 Nov;62(11):998-1002.
10. Multiplex Tandem PCR: a Novel Platform for Rapid Detection and Identification of Fungal Pathogens from Blood Culture Specimens.
Anna Lau, Tania C. Sorrell, Sharon Chen, Keith Stanley, Jonathan Iredell, and Catriona Halliday; J Clin Microbiol. 2008 September; 46(9): 3021–3027.
11. Efficient amplification with NASBA of hepatitis B virus, herpes simplex virus and methicillin resistant Staphylococcus aureus DNA.
Deiman B, Jay C, Zintilini C, Vermeer S, van Strijp D, Venema F, van de Wiel P.; J Virol Methods. 2008 Aug;151(2):283-93.

12. Comparison of four DNA extraction methods from cerebrospinal fluid. for the detection of *Toxoplasma gondii* by polymerase chain reaction in AIDS patients.
Alfonso Y, Fraga J, Cox R, Bandera F, Pomier O, Fonseca C, Ginorio D, Torres G, Capo V.; Med Sci Monit. 2008 Mar;14(3):MT1-6.
13. Clinical evaluation of NucliSENS magnetic extraction and NucliSENS analyte-specific reagents for real-time detection of human metapneumovirus in pediatric respiratory specimens.
Ginocchio CC, Manji R, Lotlikar M, Zhang F.; J Clin Microbiol. 2008 Apr;46(4):1274-80.
14. Evaluation of dried blood spot specimens for HIV-1 drug-resistance testing using the Trugene HIV-1 genotyping assay.
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15. A rapid semi automated method for DNA extraction from dried-blood spots: application to the HLA-DR shared Epitope analysis in rheumatoid arthritis.
Pachot A, Barbalat V, Marotte H, Diasparra J, Gouraud A, Mouglin B, Miossec P.; J Immunol Methods. 2007 Dec 1;328(1-2):220-5.
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V. Fihman, D. Hannouche, V. Bousson, T. Bardin, F. Lioté, L. Raskine, J. Riahi, M.J. Sanson-Le Pors and B. Berçot; J Infection, Volume 55, Issue 6, December 2007, Pages 510-517
17. Evaluation of the NucliSens miniMAG RNA extraction and real-time NASBA applications for the detection of *Mycoplasma pneumoniae* and *Chlamydia pneumoniae* in throat swabs.
K. Loens, D. Ursi, H. Goossens and M. Ieven; J Microbiol Methods. 2008 Feb;72(2):217-9.
18. Efficiency of RNA isolation from respiratory samples using the NucliSENS miniMAG and easyMAG extraction procedures;
R. Manji, F. Zhang and C. Ginocchio; Int J Antimicrobial Agents, Volume 29, Supplement 2, March 2007, Page S491.
19. Comparative evaluation of in-house manual, and commercial semi-automated and automated DNA extraction platforms in the sample preparation of human stool specimens for a *Salmonella Enterica* 5'-Nuclease assay.
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Stevens W, Wiggill T, Horsfield P, Coetzee L, Scott LE.; J Virol Methods. 2005 Mar;124(1-2):105-10.
22. Improved diagnosis specificity in bone and joint infections using molecular techniques; Fihman V, Hannouche D, Bousson V, Bardin T, Lioté F, Raskine L, Riahi J, Sanson-Le Pors MJ, Berçot B.; *J Infect. 2007 Oct 26.*
23. Evaluation of the performance of the automated NucliSENS easyMAG and EasyQ systems versus the Roche AMPLIPREP-AMPLICOR combination for high-throughput monitoring of human immunodeficiency virus load.
Stevens W, Horsfield P, Scott LE.; J Clin Microbiol. 2007 Apr;45(4):1244-9.
24. Evaluation of NucliSens EasyMAG for automated nucleic acid extraction from various clinical specimens. *Loens K, Bergs K, Ursi D, Goossens H, Ieven M.; J Clin Microbiol. 2007 Feb;45(2):421-5.*

25. Magnetic silica extraction for low-viremia human immunodeficiency virus type 1 genotyping.
McClernon DR, Ramsey E, Clair MS.; J Clin Microbiol. 2007 Feb;45(2):572-4.
26. Developments in Automated Nucleic Acid Extraction Deliver Improved Results and Productivity.
Steve Shumoski; Clin Lab Products, May-2006.
27. Evaluation of NucliSens EasyQ HIV-1 assay for quantification of HIV-1 subtypes prevalent in South-east Asia.
Lam HY, Chen JH, Wong KH, Chan K, Li P, Lee MP, Tsang DN, Yuen KY, Yam WC.; J Clin Virol. 2007 Jan;38(1):39-43.
28. Isolation and detection of Enterovirus RNA from large-volume water samples by using the nuclisens minimag system and real-time nucleic acid sequence-based amplification.
*Saskia A. Rutjes, * Ronald Italiaander, Harold H. J. L. van den Berg, Willemijn J. Lodder, and Ana Maria de Roda Husman, National Institute for Public Health and the Environment (RIVM), Microbiological Laboratory for Health Protection (MGB), Health-Related Water Microbiology, Antonie van Leeuwenhoeklaan 9, 3720 BA Bilthoven, Netherlands; Applied and Environmental Microbiology, July 2005, p. 3734-3740, Vol. 71, No. 7.*
29. WHO Consultation on technical and operational recommendations for scale-up of laboratory services and monitoring HIV anti-retroviral therapy (art) in resource - limited settings.
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30. Purification of nucleic acids by magnetic extraction and the miniMag instrument for a variety of molecular applications.
F. Zhang, D. Barth, B. Jacobs, J. Watz, M. Vossinas, R. Manji and C. C. Ginocchio, North Shore - Long Island Jewish Health System Laboratories, Lake Success, NY, Poster; PASCV 12th Annual Molecular Virology Workshop May 6-7, 2005.
31. Evaluation of three nucleic acid extraction instruments: qiagen ez1, roche magnapure compact, biomérieux MiniMag.
Douglas P. Salamon, José Cuartas, Robert Jones, Carol Cummins & Mario J Marcon, Dept. of Laboratory Medicine, Children's Hospital, Columbus, Ohio, Poster ; PASCV 12th Annual Molecular Virology Workshop May 6-7, 2005.
32. A comparison of the bioMérieux NucliSens MiniMag and the Qiagen BIOROBOT 9604 RNA extraction and purification systems.
Robert S. Lanciotti and Amy J. Lambert, Division of Vector-Borne Infectious Diseases, CDC, Fort Collins CO 80521, Poster ; PASCV 12th Annual Molecular Virology Workshop May 6-7, 2005.
33. Comparison of the MAGNAPURE compact, the BIOROBOT EZL and the MiniMag extractors.
Stellrecht, K.A., Rendo, G., Brown, A.J., Roman, K. & Salamone, S., Dept. of Pathology and Laboratory Medicine, Albany Medical Center, Albany, NY 12208, Poster ; PASCV 12th Annual Molecular Virology Workshop May 6-7, 2005.
34. Evaluation of MiniMag extraction as a rapid method of isolating Hepatitis B viral nucleic acid for analysis using the Inno-Lipa Lineprobe assay.
J. Huong, D. Burns, B. Yen-Liebermann, D. McClernon, B. Kirkpatrick and R. Lloyd, Jr. Research Think Tank, Inc Alpharetta, Georgia, Cleveland Clinic Foundation, Cleveland, Ohio, & GlaxoSmithKline, Research Triangle Park, North Carolina, Poster ; PASCV 12th Annual Molecular Virology Workshop May 6-7, 2005.
35. Real-time NASBA for the detection of Enterovirus RNA in cerebrospinal fluid (CSF).
P. van Aarle, P. Sillekens, H. Foolen, M. Overdijk, M. Peeters, C. Ginocchio, bioMérieux BV, Boxtel, Netherlands; North Shore-LIJ Health System Laboratories, Lake Success, NY, USA, Poster; PASCV 12th Annual Molecular Virology Workshop May 6-7, 2005.
36. Automated nucleic acid extraction using the NucliSens EasyMag system for the recovery of DNA from various clinical specimen types.
P. van Deursen, M. Jacobs, P. Sillekens, P. van Aarle, D. Bataille, A. van den Brule1, PAMM, Veldhoven,

Netherlands and ²bioMérieux, Boxtel, Netherlands, Poster ; 15th European Congress on Clinical Microbiology and Infectious Diseases, April 2 - 5, 2005 & 21st Annual Clinical Virology Symposium May 2005.

37. Evaluation of the REALART influenza LC RT PCR kit (ARTUS) for the detection of influenza A and B in respiratory specimens.
A. Petrich, K. Luinstra, S. Chong, S. Castriciano, M. Smieja and J. Mahony, St. Joseph's Healthcare, McMaster University, Hamilton, ON, Canada, Poster ; PASCV 12th Annual Molecular Virology Workshop May 6-7, 2005.
38. Evaluation of three extraction and four amplification methods for the detection of SARS Coronavirus (SARS-COV) from frozen stool specimens.
L. Louie¹, A.E.Simor¹, S. Chong², K. Luinstra², A. Petrich², J. Mahony², F. Gharabaghi³, G. Johnson³, B. Willey⁴, T. Mazzulli⁴, G. Broukhanski⁵, F. Jamieson⁵, R. Tellier³, M. Smieja², S.Richardson³, Ontario Laboratory Working Group for the Rapid Diagnosis of Emerging Infections¹ Sunnybrook & Women's College Health Sciences Centre, Toronto, ONT, ² St. Joseph's Healthcare, Hamilton, ONT, ³ Hospital for Sick Children, Toronto, ONT, ⁴ Mt. Sinai Hosp., Toronto, ONT, ⁵ Ontario Ministry of Health, Etobicoke, ON, Canada, Poster ; PASCV 12th Annual Molecular Virology Workshop May 6-7, 2005.
39. Development of a real-time NASBA for respiratory Syncytial virus.
B. Deiman, F. Jacobs, P. van Aarle, C. Schrover, S. Vermeer, P. van de Wiel; bioMérieux, Boxtel, Netherlands, Poster; PASCV 12th Annual Molecular Virology Workshop May 6-7, 2005.
40. Development of a real-time NASBA for Herpes Simplex virus 1 and 2.
B. Deiman, F. Jacobs, P. van Aarle, S. Vermeer, C. Schrover, P. van de Wiel, BioMérieux, Boxtel, Netherlands, Poster ; PASCV 12th Annual Molecular Virology Workshop May 6-7, 2005.
41. Comparative evaluation of three commercial systems for nucleic acid extraction in urine specimens.
Y. W. Tang^{1,2} S. E. Sefers², H. J. Li¹, D. J. Kohn³, G. W. Procop³, Vanderbilt University School of Medicine, Nashville, TN 37232, Cleveland Clinic Foundation, Cleveland, OH 44195, Poster ; PASCV 12th Annual Molecular Virology Workshop May 6-7, 2005.
42. Under-Quantitation of Hepatitis C virus (HCV) genotypes 3 and 4 using the Roche Taqman assay.
C. C. Ginocchio, F. Zhang, and B. Jacobs, North Shore-LIJ Health System Laboratories, Lake Success, NY, Poster ; PASCV 12th Annual Molecular Virology Workshop May 6-7, 2005.
43. Comparison of the MiniMag semi-automated extractor with manual nucleic acid extractions for the recovery of HIV and HCV.
Stellrecht, K.A., Landes, A., Roman, K., Butt, S., Salamone, S., Brown, A.J., Dept of Pathology and Laboratory Medicine, Albany Medical Center, Albany, NY 12208, Poster PASCV 12th Annual Molecular Virology Workshop May 6-7, 2005.
44. Genotyping of HIV-1 ProViral DNA from PBMC's using Trugene™ HIV-1 genotyping assay and NucliSens® MiniMag extraction.
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45. New magnetic silica particle extraction for HIV-1 low level Viremia genotyping.
D. R. McClernon, E. Ramsey and M. St. Clair, GlaxoSmithKline, Research Triangle Park, NC, Poster ; PASCV 12th Annual Molecular Virology Workshop May 6-7, 2005.
46. Pilot validation of the Trugene™ HIV-1 genotyping assay on low level Viremia samples.
J. Huong, D. Burns, R. Mathis¹, B. Kirkpatrick, M. Tanner and R. Lloyd, Research Think Tank, Inc Alpharetta, Georgia & 2Family HealthCare of Atlanta, Georgia, Poster ; PASCV 12th Annual Molecular Virology Workshop May 6-7, 2005.
47. Comparison of three methods of extraction of RNA for the detection of human immunodeficiency virus viral load in human plasma.
Margarita Ashman, Casiana Fernandez-Bango, Leonardo Davila, Deshratn Asthana, Miller School of Medicine, University of Miami, FL., Poster ; CDC - Prevention- HIV Diagnostics: New Developments and Challenges, Feb. 2005.

48. Detection of Enterovirus RNA in cerebrospinal fluid (CSF) using NucliSENS EasyQ Enterovirus assay
S.E. Capaul, M. Gorgievski-Hrisoho, Institute for Infectious Diseases, University of Bern, CH-3010 Bern, Switzerland; Journal of Clinical Virology 32 (2005) 236–240.
49. Clonal analysis of week 12 virologic non-responders receiving Tenofovir/Abacavir/Lamivudine In Ess300009
E. Rouse, P. Gerondelis, D. Pailsen, M. Underwood, D. McClernon, L. Preble, J. McCarville, M. Lim, M. Schaefer, A. Rodriguez, J. Gallant, Q. Liao, R. Lanier, L. Ross, GlaxoSmithKline, Research Triangle Park, NC, University of Miami, FL, John Hopkins Univ, Baltimore, MD., Poster ; 12th Conf. on Retroviruses and Opportunistic Infections, Boston MA, USA, Feb. 2005.
50. The effect of incubation in MiniMag lysis buffer on the viability of Mycobacteria in sputum.
P Daley, A Petrich, P Drummond, M Smieja, McMaster University, Hamilton, Ontario, Poster; AMMI Canada–CACMID 2005 Annual Conference, Ottawa, Ontario, April, 2005.*
51. Evaluation of six extraction methods for RT-PCR detection of SARS-COV from five types of respiratory samples.
*F Gharabaghi*1, G Johnson1, R Tellier1, A Petrich2, J Mahony2, S Chong2, G Broukhanski5, L Louie3, K Luinstra2, B Willey4, A Simor3, M Louie3, F Jamieson5, T Mazzulli4, S Poutanen6, M Smieja7, C Harlton-Strezov4, S. Richardson1; The Hospital for Sick Children, Toronto1; St Joseph's Healthcare, Hamilton2; Sunnybrook and Women's College HSC3; Mount Sinai Hospital, Toronto4; Ministry of Health and Long-Term Care, Etobicoke5; University of Toronto, Toronto6; McMaster University, Hamilton, Ontario7, PosterAMMI Canada–CACMID 2005 Annual Conference, Ottawa, Ontario, April, 2005.*
52. Evaluation of the NucliSens MiniMag RNA extraction and real-time NASBA applications for the detection of M. Pneumoniae and C. Pneumoniae in throat swabs.
K. Loens, D. Ursi, M. Overdijk, P. Sillekens, H. Goossens, M. Leven , Dept. of Medical Microbiology, University of Antwerp, Wilrijk, Belgium, bioMérieux, Boxtel, Netherlands, Poster 15th European Congress on Clinical Microbiology and Infectious Diseases, Copenhagen, Denmark, April 2005.
53. Comparison of NucliSens MiniMag to reference extraction methods for the isolation of RNA and DNA from various sample types.
G. Onland, L. Bartels, P. van Deursen, M. Jacobs, E. Boel, and A. van den Brule. Lab. for Medical Microbiology, PAMM Institute, Veldhoven, Netherlands; 2bioMérieux, R&D Molecular Diagnostics, Boxtel, Netherlands. Poster 11e European Congress of Virology, EUROVIROLOGY 2004, Madrid, September 2004.
54. NucliSENS MiniMag and Magnetic Extraction Reagent; A Jack of All Trades.
D. R. McClernon, GlaxoSmithKline, Research Triangle Park, NC and R. Lloyd, Research Think Tank, Inc Alpharetta, GA. Corporate Workshop PASCV Meeting, May 9, 2005.
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D. Westmoreland, Welsh Specialist Virology Center, University Hospital of Wales, Cardiff, UK.
56. Comparison of five DNA extraction methods for use with the DIVERSILAB microbial typing system.
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57. HIV-1 Viral load by NucliSens EASYQ HIV-1 V1.1 in combination with the NucliSens MiniMag instrument.
P. van Deursen, T. Oosterlaken, T. Cuyppers, A. Verhoeven, P. de Bie, R. Bosch, I. Berghuis, M. Jacobs, P. van de Wiel, Boxtel, Amsterdam, Netherlands, Poster; 14th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), April 2004.
58. Comparison of the NucliSens MiniMag (bioMérieux) and the MAGNAPURE LC extraction system (Roche Diagnostics) for the recovery of viral RNA and viral DNA.
C. Burghoorn-Maas, P. van Deursen2, M. Jacobs, and B. Niesters, Erasmus MC, Department of Virology,

Rotterdam, The Netherlands; 2bioMérieux, R&D Molecular Diagnostics, Boxtel, The Netherlands. Poster; II European Congress of Virology, EUROVIROLOGY 2004, Madrid, September 2004.

59. Isolation of Enterovirus RNA using magnetic silica particles and the MiniMag extraction procedure.
F. Zhang, R. Manji and C. C. Ginocchio, North Shore-LIJ Health System Laboratories, Lake Success, NY; 2North Shore University Hospital, Manhasset, NY. Poster; II European Congress of Virology, EUROVIROLOGY 2004, Madrid, September 2004.
60. Comparison of the NucliSens magnetic extraction reagents to reference extraction methods the isolation of RNA and DNA from various sample types.
A.J.C. van den Brule, G. Onland, L. Bartels, C.H.E. Boe, PAMM Institute, Laboratory for Medical Microbiology, Veldhoven, the Netherlands, Journal of Thrombosis and Haemostasis 2003; 1 Supplement 1 July: Abstract number: 902, p834.
61. Nucleic acid isolation using NucliSens MiniMag instrument.
Van Deursen P, Verhoeven A, de Bie P, Grinsven A, Jacobs M, van de Wiel P., Clin Microbiol Infect 2004;10(Suppl 3):832.
62. Detection of SARS-COV using Real-Time NASBA combined to magnetic BOOM RNA isolation.
R. Gonzales, P. van de Wiel, P. van Deursen, et. al., BioMerieux BV, Boxtel, the Netherlands, Poster; International Conference on SARS, Lübeck, 08.-11.05.2004.

MCB 1200 Publications

1. Direct electrochemical stripping detection of cystic-fibrosis-related DNA linked through cadmium sulfide quantum dots; S Marin and A. Merkoçi; 2009 Nanotechnology 20 055101.
2. The Electrochemical Detection of Interleukin-8, Cancer Biomarker, Based on a Gold Nanoparticle Platform and its Political Implications (2011). Doucette, Jaimee, Pell Scholars and Senior Theses. Paper 71.
3. Electrochemical Detection of DNA Hybridization Using Micro and Nanoparticles, María Teresa Castañeda, Salvador Alegret and Arben Merkoçi, Biosensors and Biodetection, Methods in Molecular Biology, 2009, Volume 504, II, 127-143, DOI: 10.1007/978-1-60327-569-9_9
4. Magnetic Electrochemical Immunoassays with Quantum Dot Labels for Detection of Phosphorylated Acetylcholinesterase in Plasma; Hua Wang, Jun Wang, Charles Timchalk, and Yuehe Lin; Anal Chem. Anal Chem. 2008 November 15; 80(22): 8477.
5. Double-codified gold nanolabels for enhanced immunoanalysis. Ambrosi, A., Castañeda, M., Killard, A., Smyth, M., Alegret, S., & Merkoçi, A. (2007). Analytical Chemistry, 79(14), 5232-5240.
6. Quantum-Dots Based Electrochemical Immunoassay of Interleukin-1a, Wu H, G Liu, J Wang, and Y Lin., Electrochemistry Communications 9(7):1573-1577, 2007.
7. Magnetic Beads-based Bioelectrochemical Immunoassay of Polycyclic Aromatic Hydrocarbons. Lin Y, G Liu, CM Wai, and Y Lin. 2007; Electrochemistry Communications 9(7):1547-1552, 2007.
8. Bioassay Labels Based on ApoFerritin Nanovesicles. Liu G, J Wang, S Lea, and Y Lin., ChemBiochem 7(9):1315-1319, 2006.
9. Versatile Apoferritin Nanoparticle Labels for Assay of Protein. Liu G, J Wang, H Wu, and Y Lin., Analytical Chemistry 78(21):7417-7423, 2006.
10. Apoferritin Templated Synthesis of Metal Phosphate Nanoparticle Labels for Electrochemical Immunoassay. Liu G, H Wu, J Wang, and Y Lin., SMALL 2(10):1139-1143, 2006.
11. Magnetic techniques for the isolation and purification of proteins and peptides; Ivo Safarik and Mirka Safarikova; Biomagn Res Technol. 2004; 2: 7.
12. Amplified Label-Free Detection of DNA Hybridization, J. Wang, and A. Kawde, Analyst, 127 (2002) 383.
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15. Magnetic Field Stimulated DNA Oxidation, J. Wang and A. Kawde; Electrochemistry Communications, 4 (2002) 349.
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17. Metal-Nanoparticle Based Electrochemical Stripping Detection of DNA Hybridization, J. Wang, D. Xu, R. Polsky, and A. Kawde, Anal. Chem. 73 (2001) 5576.
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