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 bioMérieux) 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.

2. An RNAi in silico approach to find an optimal shRNA cocktail against HIV-1.

3. A quantitative real-time PCR method for monitoring Clostridium botulinum type A in rice samples.

4. Long-Term Impact of Acyclovir Suppressive Therapy on Genital and Plasma HIV RNA in Tanzanian Women: A Randomized Controlled Trial.

5. Correlation between HIV-1 viral load quantification in plasma, dried blood spots, and dried plasma spots using the Roche COBAS Taqman assay.

6. Comparison of different concentration methods for the detection of hepatitis A virus and calicivirus from bottled natural mineral waters.

7. Collaborative Study to Establish a World Health Organization International Genotype Panel for Parvovirus B19 DNA Nucleic Acid Amplification Technology (NAT)-Based Assays.

8. Development of efficient DNA isolation procedures for Cryptosporidium and Trichinella PCR detection in fecal samples.

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.


11. Efficient amplification with NASBA of hepatitis B virus, herpes simplex virus and methicillin resistant Staphylococcus aureus DNA.
12. Comparison of four DNA extraction methods from cerebrospinal fluid for the detection of Toxoplasma gondii by polymerase chain reaction in AIDS patients.

13. Clinical evaluation of NucliSENS magnetic extraction and NucliSENS analyte-specific reagents for real-time detection of human metapneumovirus in pediatric respiratory specimens.


15. A rapid semi automated method for DNA extraction from dried-blood spots: application to the HLA-DR shared Epitope analysis in rheumatoid arthritis.


17. Evaluation of the NucliSens miniMAG RNA extraction and real-time NASBA applications for the detection of Mycoplasma pneumoniae and Chlamydophila pneumoniae in throat swabs.

18. Efficiency of RNA isolation from respiratory samples using the NucliSENS miniMAG and easyMAG extraction procedures;


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.

25. Magnetic silica extraction for low-viremia human immunodeficiency virus type 1 genotyping.  

26. Developments in Automated Nucleic Acid Extraction Deliver Improved Results and Productivity.  
Steve Shumoski; Clin Lab Products, May-2006.


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.  

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.  

30. Purification of nucleic acids by magnetic extraction and the miniMag instrument for a variety of molecular applications.  

31. Evaluation of three nucleic acid extraction instruments: qiagen ez1, roche magnapure compact, biomerieux MiniMag.  
Douglas P. Salamon, Josué 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 bioMerieux 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.  

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).  

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,
37. Evaluation of the REALART influenza LC RT PCR kit (ARTUS) for the detection of influenza A and B in respiratory specimens.

38. Evaluation of three extraction and four amplification methods for the detection of SARS Coronavirus (SARS-COV) from frozen stool specimens.


40. Development of a real-time NASBA for Herpes Simplex virus 1 and 2.

41. Comparative evaluation of three commercial systems for nucleic acid extraction in urine specimens.
Y. W. Tang1,2 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.

43. Comparison of the MiniMag semi-automated extractor with manual nuclisens extractions for the recovery of HIV and HCV.

44. Genotyping of HIV-1 ProViral DNA from PBMC’s using Trugene™ HIV-1 genotyping assay and NucliSens® MiniMag extraction.

45. New magnetic silica particle extraction for HIV-1 low level Viremia genotyping.

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.
48. Detection of Enterovirus RNA in cerebrospinal fluid (CSF) using NucliSens EasyQ Enterovirus assay

49. Clonal analysis of week 12 virologic non-responders receiving Tenofovir/Abacavir/Lamivudine In

50. The effect of incubation in MiniMag lysis buffer on the viability of Mycobacteria in sputum.

51. Evaluation of six extraction methods for RT-PCR detection of SARS-COV from five types of respiratory samples.
F Gharabaghi*, G Johnson1, R Tellier1, A Petrich2, J Mahony2, S Chong2, G Broukhanski5, L Louie3, K Lunstra2, B Willey4, A Simor3, M Louie3, F Jamieson5, T Mazzulli4, S Poutanen6, M Smieja7, C Harlton-Strezo4, 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.

54. NucliSens MiniMag and Magnetic Extraction Reagent; A Jack of All Trades.
D. R. McCleron, GlaxoSmithKline, Research Triangle Park, NC and R. Lloyd, Research Think Tank, Inc Alpharetta, GA. Corporate Workshop PASCV Meeting, May 9, 2005.

55. Detection of Respiratory Syncytial Virus RNA in Respiratory Samples Utilizing NucliSense EasyQ RSV A+B Primer Probe Mix.
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.

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. Cuypers, 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 (bioMerieux) 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,
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
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61. Nucleic acid isolation using NucliSens MiniMag instrument.
2004;10(Suppl 3):832.

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.


