The CE IVD Mitra Microsampler FDA class I medical device is for direct specimen collection of blood and other biological fluids. It is not specific to any clinical test, and is not for use in diagnostic procedures. Use of the Mitra Microsampler in Laboratory Developed Tests (LDTs) requires further processing including the establishment of performance characteristics and successful validation by the laboratory in a manner consistent with CLIA requirements. The Mitra device is patent pending. Mitra is a registered trademark and VAMS is a trademark of Neoteryx, LLC. Copyright © 2017 Neoteryx, LLC. All rights reserved.

VAMS™ publications

2014


*Microsampling Technology Validation | Dried Blood*

2015


*Hematocrit (HCT) | vs Dried Blood Spots*


*Hematocrit (HCT) | Extraction Studies*


*Peptide Hormone | Mitra Extractions | vs Dried Blood Spots*


*Cross-laboratory Study | Hematocrit (HCT) | vs Dried Blood Spots*


*Small Molecule | Animal Testing | TK Study*
The CE-IVD Mitra Microsampler FDA class I medical device is for direct specimen collection of blood and other biological fluids. It is not specific to any clinical test, and is not for use in diagnostic procedures. Use of the Mitra Microsampler in Laboratory Developed Tests (LDTs) requires further processing including the establishment of performance characteristics and successful validation by the laboratory in a manner consistent with CLIA requirements. The Mitra device is patent pending. Mitra is a registered trademark and VAMS is a trademark of Neoteryx, LLC. Copyright © 2017 Neoteryx, LLC. All rights reserved.

- Miao, Z., Farnham, J. G., Hanson, G., Podoll, T., Reid, M. J. Bioanalysis of emixustat (ACU-4429) in whole blood collected with volumetric absorptive microsampling by LC – MS / MS. Bioanalysis. 2015;7(16):2071-83
  Small Molecule | Anticoagulant | Bioanalytical Validation

  Antibiotic | Bioanalytical Validation

  Animal Testing | PK Study | vs. Capillary Tubes

  Antimicrobials | Blood Plasma | Stability Studies

2016

  Illicit Drugs | Urine, Plasma, Oral Fluids | Bioanalytical Validation

  Pediatrics | Clinical Study | Wet vs. Dry Blood

- Stephenson, S., Rudge, J., Development of a potential at-home assay for tacrolimus monitoring using a microsampling device. XXVIII Congress of the Scandinavian Transplantation Society, 11-13 May 2016, Stockholm, Sweden
  Transplant | Clinical Study | Home Use | Study
The CE|IVD Mitra Microsampler is a FDA class I medical device for direct specimen collection of blood and other biological fluids. It is not specific to any clinical test, and is not for use in diagnostic procedures. Use of the Mitra Microsampler in Laboratory Developed Tests (LDTs) requires further processing including the establishment of performance characteristics and successful validation by the laboratory in a manner consistent with CLIA requirements. The Mitra device is patent pending. Mitra is a registered trademark and VAMS is a trademark of Neoteryx, LLC. Copyright © 2017 Neoteryx, LLC. All rights reserved.


*Chemical Agent | Dried Plasma | Stability Study*

- Nicholls H., Tang J.C.Y., Dutton, J., & Fraser, W.D. Evaluation of the mitra micro-sampling device against dried blood spot cards for measurement of 25-hydroxy vitamin D3 by LC-MS/MS. *MSACL EU Annual Conference, 12-15 Sep 2016, Salzburg, Austria*

*Micronutrient Monitoring | vs. Plasma | Hematocrit (HCT)*


*Glycopeptide | Recovery Study | vs. Dried Plasma*


*Metals | Ultra-trace Levels | ICP-MS/MS*


*Therapeutic Drug Monitoring | Pediatrics | vs. Dried Blood Spots*

2017


*Illicit Drugs | vs. Dry Blood Spots | Bioanalytical Validation*


*Animal Testing | NC3Rs | Bioavailability of Drug Formulations*

**Extraction Studies | Hematocrit (HCT)**


**Disease Monitoring | At-home Sampling | vs. Venous Blood**


**Low-resource Region | vs. Dry Blood Spot | Method Validation**

- Plomley, J., Villeneuve, D., Chen, M., Mekhssian, K., Didur, O., Ruddock, R., & Keyhani, A. Large molecule application of volumetric absorptive microsampling for the determination of a single-rat PK profile for exenatide by LC-MS/MS. *WRIB 11th Annual Conference*, 3-7 April 2017, Los Angeles, CA

**Animal Testing | Biotherapeutic | Single Rodent PK Profile**


**Micronutrient Monitoring | vs. Dried Blood Spot | Stable Isotope Dilution Assay (SIDA)**


**Protein Quantitation | Multiple Reaction Monitoring | LC-MS/MS**


**Medication Adherence | Clinical Study | vs. Dried Blood Spots**

**Therapeutic Drug Monitoring | vs. Venous Blood | vs. Dried Blood Spot**


**Animal Testing | PK Studies in Mice | Bioanalytical Validation**


**Fe Concentration | vs. Venous Blood | Extraction Studies**


**hTISIS | Multi-Element Analysis**


**Marine Toxin | Validated Method | ELISA**


**Metabolomics | Extraction Procedures | Stability**


**Tacrolimus | Hematocrit Evaluation | Stability**
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- Cala, MP., Meesters, RJ. **Comparative study on microsampling techniques in metabolic fingerprinting studies applying gas chromatography-MS analysis.** Bioanalysis. 2017 Sep 9 (17): 1329-1340

  *Metabolomics | Breast Cancer Fingerprinting*


  *Therapeutic Drug Monitoring | Pediatrics | Asthma*


  *Antibiotics | Method Development and Validation | vs. Dried Blood Spot*


  *Clinical Samples | No Sample Preparation | “Collect-and-Spray”*


  *Estrogens | PK Studies in Small Animals | Nanofluidic LC-Chip-MS/MS*


  *Application Overview | Sample Preparation | Hematocrit*

- Kasie Fang, Chester L Bowen, John F Kellie, Molly Z Karlinsey, & Christopher A Evans. **Drug monitoring by volumetric absorptive microsampling: method development considerations to mitigate hematocrit effects.** Bioanalysis, Ahead of Print Published Online 15 Jan 2018 | https://doi.org/10.4155/bio-2017-0221

  *Regulated Bioanalysis | Pharmacokinetics / Toxicokinetics | Hematocrit*
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- Michele Protti, Maria Carmen Catapano, Boaz Gedaliahu Samolsky Dekel, James Rudge, Gilberto Gerra, Lorenzo Somaini, Roberto Mandrioli, & Laura Mercolini. **Determination of oxycodone and its major metabolites in haematonic and urinary matrices: Comparison of traditional and miniaturised sampling approaches.** *J Pharm Biomed Anal Volume 152, 2018 Apr 15, 204-214*

  *Anti-doping | Bioanalysis | Blood & Urine*


  *Tacrolimus | PK Study in Rats | Dried Blood vs. Wet Blood vs. Plasma*


  *HbA1c | Remote Monitoring | Pediatrics*

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  *Therapeutic mAbs | VAMS vs DBS | Serum/Plasma Concentration Estimations*


  *Hormones | Performance Monitoring | Finger-prick vs Venous Specimens*