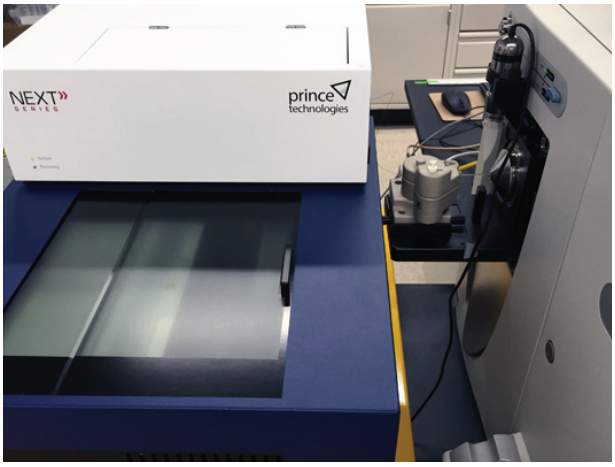
The Introduction of Fast, Sensitive, and Robust Capillary Electrophoresis coupled to Mass Spectrometry (CE-ESI-MS)

Introducing the PrinCE Next|840 with the PrinCE Next EMASS-II Ion Source

The PrinCE Next EMASS-II ion source incorporates an EOF driven sheath liquid flow electrospray emitter technology. In this novel sheath-flow CE-MS interface design; sheath liquid is supplied through a vial comprising an electrode. The vial is in liquid communication with the electrospray emitter interior through a tee. When the electrode is connected to an external high voltage power supply, electroosmotic flow of the sheath liquid is generated from the borosilicate glass emitter surface.



The sheath liquid flows across the outlet of the separation capillary, where it entrains the analyte liquid prior to exiting through the opening at the electrospray emitter tip, producing a nanospray generated by electrokinetic flow of the sheath liquid, thus minimizing dilution of the CE effluent. Compared with a typical sheath-flow CE-MS interface, this innovative design results in significant increase in sensitivity (50-100 fold or higher increase in mass spectrometry signal) and robustness.

Features

- EOF-driven sheath liquid flow interface
- Use of extremely short capillary length of 50cm (600V/cm)
- Nanoflow sensitivity
- High electrospray efficiency
- Extremely robust
- Established CE-MS methods for peptide mapping and reduced monoclonal antibody intact mass analysis

Comprehensive Product Support

- Supported capillaries wit 200-360 µm OD (bare, neutral and cation)
- Supported MS (Thermo, Waters and Bruker)
- Application support
- Demonstrations in your lab

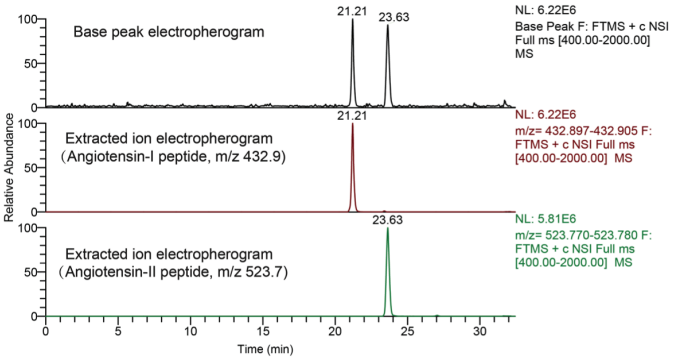
NEXT SERIES

Leaders in Capillary Electrophoresis Technology

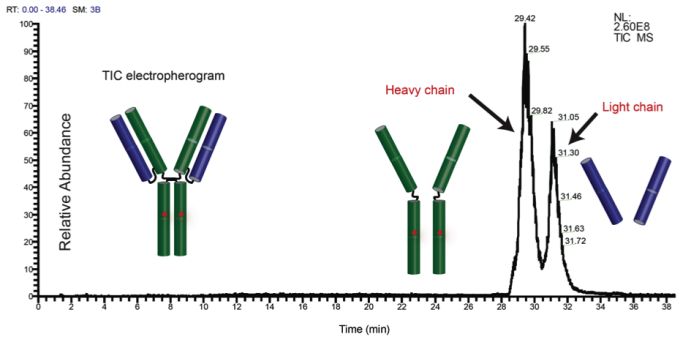
Technical Specifications PrinCE Next|840

- mAb CE-MS platform: intact mass analysis, peptide mapping, reduced mAb intact mass analysis
- mAb PK analysis
- Fusion protein PTMs
- Polysaccharide CE-MS release assay
- N-glycan analysis
- Compound stability

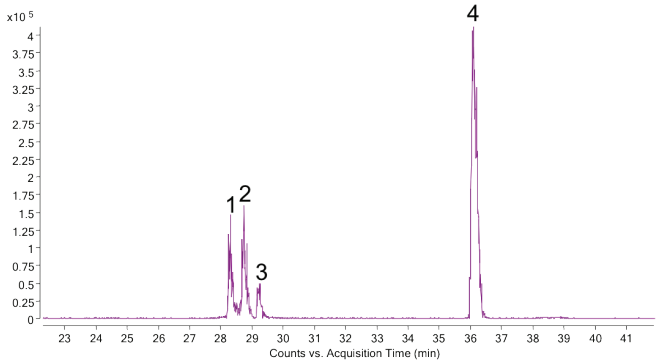
Angiotension I & II Mixture



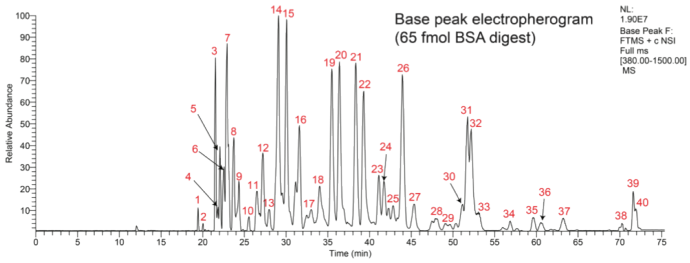
Reduced Monoclonal Antibody



Four Protein Mixture



BSA



Sequence Coverage = 88%

DTHKSEIAHR FKDLGEEHFK GLVLIAFSQY LQQCPFDEHV KLVNELTEFA KTCVADESHA
GCEKSLHTLF GDELCKVASL RETYGDMADC CEKQEPERNE CFLSHKDDSP DLPKLKPDPN
TLCDEFKADE KKFWGKYLYE IARRHPYFYA PELLYYANKY NGVFQECCQA EDKGACLLPK
IETMREKVLA SSARQRLRCA SIQKFGERAL KAWSVARLSQ KFPKAEFVEV TKLVTDLTKV
HKECCHGDLL ECADDRADLA KYICDNQDTI SSKLKECCDK PLLEKSHCIA EVEKDAIPEN
LPPLTADFAE DKDVCKNYQE AKDAFLGSFL YEYSRRHPEY AVSVLLRLAK EYEATLEECC
AKDDPHACYS TVFDKLKHLV DEPQNLIKQN CDQFEKLGEY GFQNALIVRY TRKVPQVSTP
TLVEVSRSLG KVGTRCCTKP ESERMPCTED YLSLILNRLC VLHEKTPVSE KVTKCCTESL
VNRRPCFSAL TPDETYVPKA FDEKLFTFHA DICTLPDTEK QIKKQTALVE LLKHKPKATE
EQLKTVMENF VAFVDKCCAA DDKEACFAVE GPKLVVSTQT ALA

Ordering Information

Part No.	Model	Description
0005.166	PrinCE Next EMASS-II Ion Source	PrinCE Next EMASS-II CE-ESI-MS ion source for coupling Capillary Electrophoresis and Electrospray Ionisation Mass Spectrometry

PO Box 2194, 7801 CD Emmen
The Netherlands
Tel: +31 (0)591 629184
Fax: +31 (0)591 628385
www.princetechnologies.com
sales@princetechnologies.com
oem@princetechnologies.com
info@princetechnologies.com