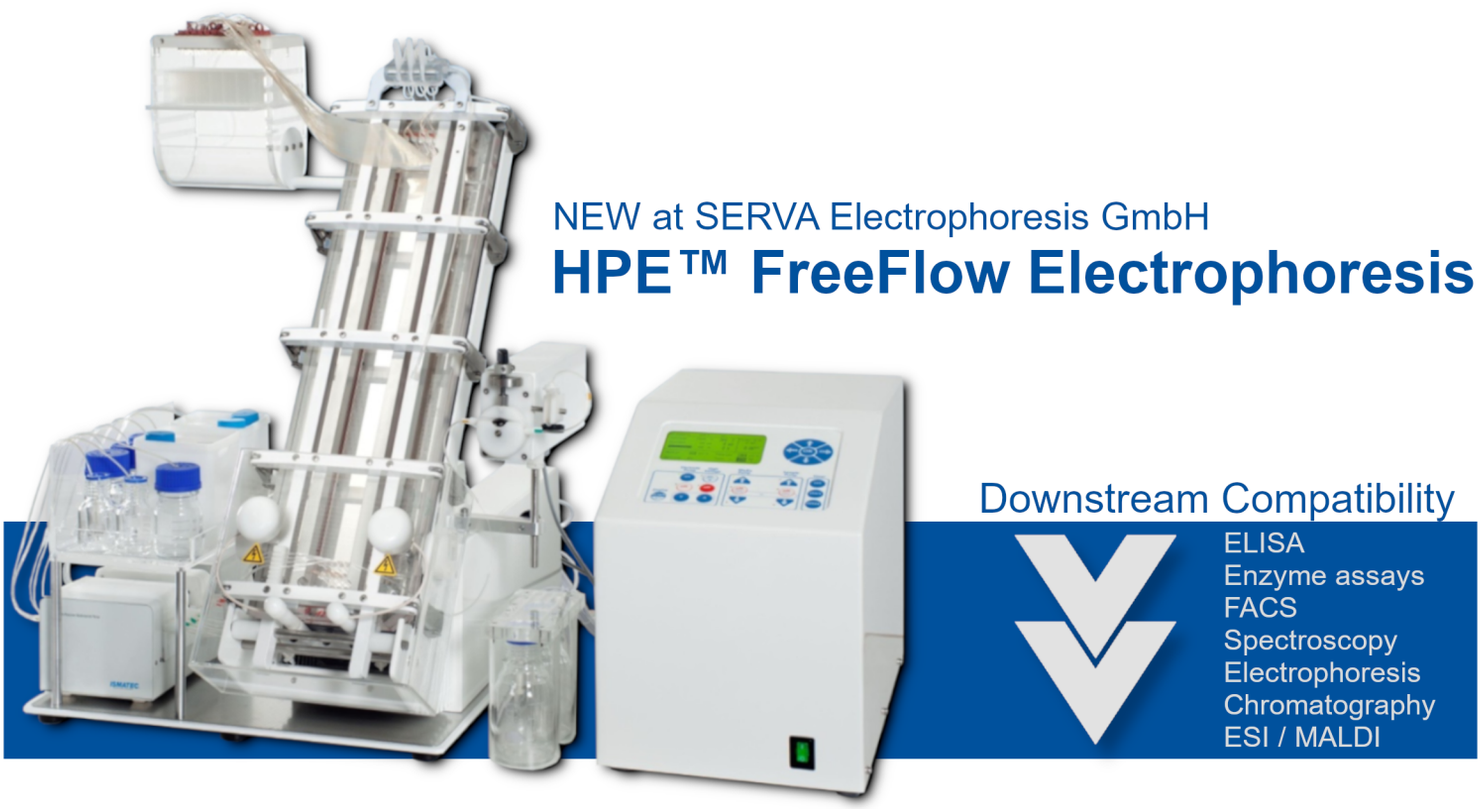
Gel-free electrophoresis now at SERVA

FreeFlow Electrophoresis is a versatile, powerful technique for separating and analyzing proteins, peptides and nucleic acids in a liquid medium under the influence of an electric field. It offers several advantages over gel-based electrophoresis, especially for the separation of complex mixtures and large volumes.



NEW at SERVA Electrophoresis GmbH

HPE™ FreeFlow Electrophoresis

Downstream Compatibility

ELISA
Enzyme assays
FACS
Spectroscopy
Electrophoresis
Chromatography
ESI / MALDI

The key points

The principle: In contrast to conventional electrophoresis, which uses a gel matrix, FFE separates charged particles in a free-flowing medium without sieve effect.

The design: The FFE consists of a thin, flat chamber through which the sample and buffer run in a parallel, laminar flow. An electric field is applied perpendicular to the direction of the flow deflecting the molecules of the sample according to their net charge and size.

The separation: The molecules are separated according to their electrophoretic mobility, migrate to different positions across the width of the chamber and are collected in a microtiter plate.

Examples of possible separations in FreeFlow Electrophoresis

PROTEINS

Proteomes from:
Human tissue
Body fluids
E. coli
Yeasts
Plants

Isoforms of:
Glycoproteins
Antibodies
etc.

MEMBRANES

from:
Human cells
- Erythrocytes
- Thymocytes
- Lymphocytes
- Kidney cells

Plants
Bacteria

BIOPARTICLES

Bone marrow cells
PMN Leukocytes
Blood platelets
Thymus cells
Kidney cells
Spleen cells
Sprematozoa
Bacteria
Parasites
etc.

ORGANELLES

Melanosomes
Calciosomes
endosomes
Lysosomes
Peroxisomes
Vesicle
Endoplasmic reticulum
Mitochondria
etc.

MISCELLANEOUS

Chiral organic compounds
Liposomes
Peptide hormones
Ions
Amphoteric substances, e.g. SERVALYT™

If you are interested, please contact us:

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