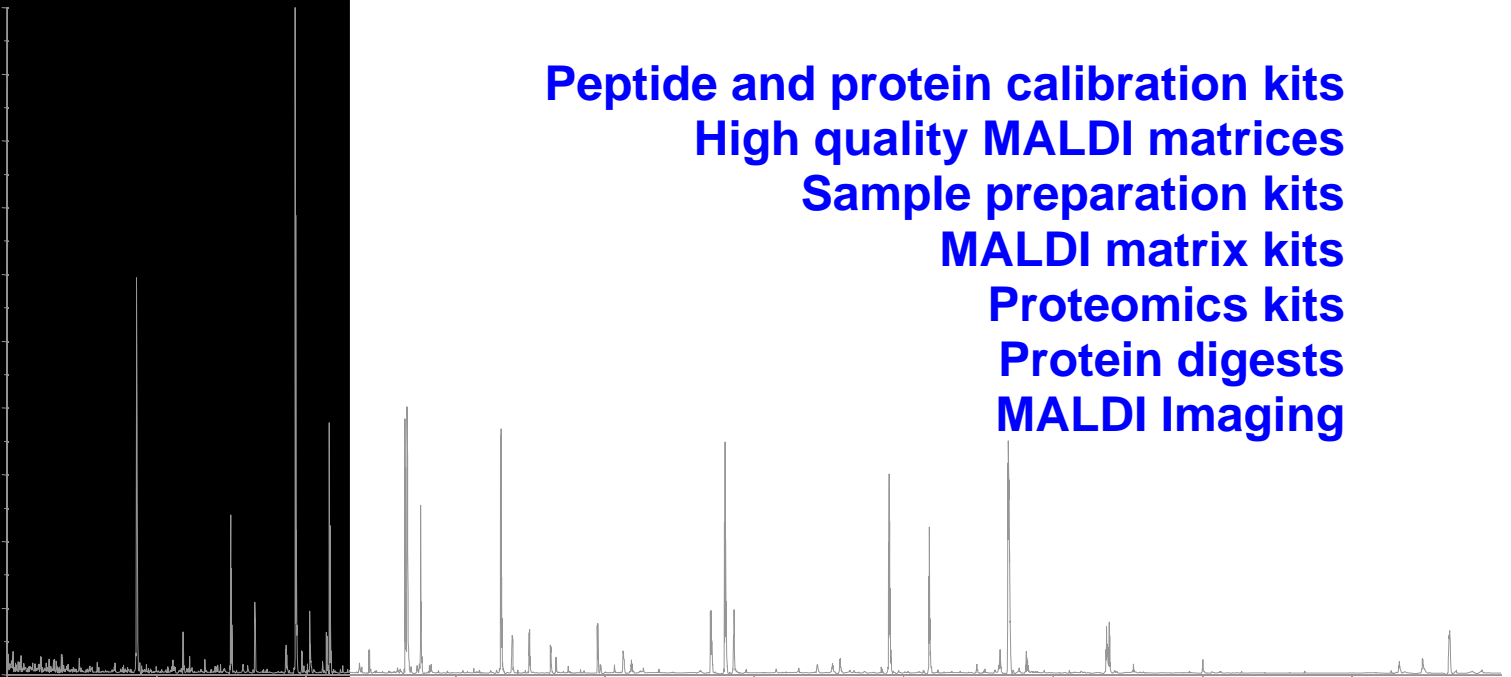


Mass spectrometry Consumables

Peptide and protein calibration kits
High quality MALDI matrices
Sample preparation kits
MALDI matrix kits
Proteomics kits
Protein digests
MALDI Imaging



Matrix Kits



MALDI matrix kits contain pre-weighed tubes of recrystallized matrices and adapted solvent mixtures. They provide standard analytical conditions and eliminate the need for cumbersome daily preparation of fresh matrix. Recrystallized and cation-depleted matrix provides higher sensitivity and improved signal-to-noise ratio when compared to non-recrystallized standard product.



M001	αCHCA matrix kit 50 eppendorf tubes of recrystallized α -cyano-4-hydroxycinnamic acid (α CHCA) matrix (5 mg each) and one 50 mL solvent vial (50% acetonitrile in water / 0.1% Trifluoroacetic acid) for matrix preparation Applications: MALDI-TOF analysis of peptides and proteins, Proteomics
M002	SA matrix kit 50 eppendorf tubes of recrystallized Sinapinic acid matrix (3,5 dimethoxy-4-hydroxycinnamic acid / SA - 5 mg each), and one 50 mL solvent vial (30% acetonitrile in water / 0.1% trifluoroacetic acid) for matrix preparation Applications: MALDI-TOF analysis of peptides and proteins
M003	DHB matrix kit 50 eppendorf tubes of recrystallized 2,5 dihydroxybenzoic acid matrix (Gentisic acid – DHB - 5 mg each), and one 50 mL solvent vial (20% acetonitrile in water / 0.1% trifluoroacetic acid) for matrix preparation Applications: MALDI-TOF analysis of peptides and proteins, small molecules
M004	Peptide/protein 3-matrix kit <ul style="list-style-type: none">• 30 eppendorf tubes of recrystallized α-cyano-4-hydroxycinnamic acid matrix (αCHCA - 5 mg each)• 30 eppendorf tubes of recrystallized Sinapinic acid (3,5 dimethoxy-4-hydroxycinnamic acid matrix / SA - 5 mg each)• 30 eppendorf tubes of recrystallized 2,5 dihydroxybenzoic acid matrix (Gentisic acid / DHB – 5 mg each)• Three solvent vials of 30 mL each (50% acetonitrile in water / 0.1% TFA, 30% acetonitrile in water / 0.1% TFA, 20% acetonitrile in water / 0.1% TFA) for matrix preparation Applications: MALDI-TOF analysis of peptides and proteins, proteomics, small molecules
M005	sDHB (super DHB) matrix kit 50 eppendorf tubes of recrystallized super DHB matrix (2,5 dihydroxybenzoic acid + 5-methoxysalicylic acid - 5 mg each) and one 50 mL solvent vial (20% acetonitrile in water / 0.1% trifluoroacetic acid) for matrix preparation Applications: MALDI-TOF analysis of peptides and proteins
M006	CA matrix kit 50 eppendorf tubes of recrystallized Caffeic acid matrix (3,4 dihydroxycinnamic acid / CA - 5 mg each) and one 50 mL solvent vial (50% acetonitrile in water / 0.1% trifluoroacetic acid) for matrix preparation Applications: MALDI-TOF analysis of peptides and proteins

M007

FA matrix kit

50 eppendorf tubes of recrystallized Ferulic acid matrix (trans-4-hydroxy-3-methoxycinnamic acid / FA - 5 mg each) and one 50 mL solvent vial (30% acetonitrile in water / 0.1% trifluoroacetic acid) for matrix preparation

Applications: MALDI-TOF analysis of peptides and proteins

M008

Peptide/protein 5-matrix kit

- 30 eppendorf tubes of recrystallized α -cyano-4-hydroxycinnamic acid matrix (α CHCA - 5 mg each)
- 30 eppendorf tubes of recrystallized Sinapinic acid (3,5 dimethoxy-4-hydroxycinnamic acid matrix / SA - 5 mg each)
- 30 eppendorf tubes of recrystallized 2,5 dihydroxybenzoic acid matrix (Gentisic acid / DHB - 5 mg each)
- 30 eppendorf tubes of recrystallized Caffeic acid matrix (3,4 dihydroxycinnamic acid / CA - 5 mg each)
- 30 eppendorf tubes of recrystallized Ferulic acid matrix (trans-4-hydroxy-3-methoxycinnamic acid / FA - 5 mg each)
- Three solvent vials (50% acetonitrile in water / 0.1% TFA, 30% acetonitrile in water / 0.1% TFA, 20% acetonitrile in water / 0.1% TFA) for matrix preparation

Applications: MALDI-TOF analysis of peptides and proteins, proteomics, small molecules

M009

HPA matrix kit

50 eppendorf tubes of recrystallized 3-hydroxypicolinic acid matrix (HPA - 25 mg each), and one 50 mL solvent vial (25mM diammonium citrate in 50% acetonitrile / water / 0.1% TFA) for matrix preparation

Applications: MALDI-TOF analysis of oligonucleotides

M010

246THAP matrix kit

50 eppendorf tubes of recrystallized 2,4,6 trihydroxyacetophenone matrix (246THAP - 10 mg each), and one 50 mL solvent vial (25mM diammonium citrate in 50% acetonitrile / water / 0.1% TFA) for matrix preparation

Applications: MALDI-TOF analysis of oligonucleotides

M012

Oligonucleotide matrix kit

- 30 eppendorf tubes of recrystallized 3-hydroxypicolinic acid matrix (HPA - 25 mg each)
- 30 eppendorf tubes of recrystallized 2,4,6 trihydroxyacetophenone matrix (246THAP - 10 mg each)
- One 60 mL solvent vial (25mM diammonium citrate in 50% acetonitrile / water / 0.1% TFA) for matrix preparation

Applications: MALDI-TOF analysis of oligonucleotides

Bulk Matrix



M101	Recrystallized αCHCA matrix 5 tubes of 200 mg each recrystallized α -cyano-4-hydroxycinnamic acid matrix (α CHCA)
M102	Recrystallized SA matrix 5 tubes of 200 mg each recrystallized Sinapinic acid matrix (3,5 dimethoxy-4-hydroxycinnamic acid / SA)
M103	Recrystallized DHB matrix 5 tubes of 200 mg each recrystallized 2,5 dihydroxybenzoic acid matrix (Gentisic acid / DHB)
M104	Recrystallized Peptide/protein3-matrix kit 3 tubes of 200 mg each of recrystallized matrix: <ul style="list-style-type: none">• α-cyano-4-hydroxycinnamic acid (αCHCA)• Sinapinic acid (3,5 dimethoxy-4-hydroxycinnamic acid – SA)• 2,5 dihydroxybenzoic acid (Gentisic acid - DHB)
M105	Recrystallized sDHB matrix 5 tubes of 200 mg each recrystallized super DHB matrix (2,5 dihydroxybenzoic acid + 5-methoxysalicylic acid)
M106	Recrystallized CA matrix 5 tubes of 200 mg each recrystallized Caffeic acid matrix (3,4 dihydroxycinnamic acid / CA)
M107	Recrystallized FA matrix 5 tubes of 200 mg each recrystallized Ferulic acid matrix (trans-4-hydroxy-3-methoxycinnamic acid / FA)
M108	Recrystallized Peptide/protein 5-matrix kit 5 tubes of 200 mg each of recrystallized matrix: <ul style="list-style-type: none">• α-cyano-4-hydroxycinnamic acid (αCHCA)• Sinapinic acid (3,5 dimethoxy-4-hydroxycinnamic acid - SA)• 2,5 dihydroxybenzoic acid (Gentisic acid - DHB)• Caffeic acid matrix (3,4 dihydroxycinnamic acid / CA)• Ferulic acid matrix (trans-4-hydroxy-3-methoxycinnamic acid / FA)
M109	Recrystallized HPA matrix 5 tubes of 200 mg each recrystallized 3-hydroxypicolinic acid matrix (HPA)
M110	Recrystallized 246THAP matrix 5 tubes of 200 mg each recrystallized 2,4,6 trihydroxyacetophenone matrix (246THAP)
M112	Recrystallized oligonucleotide 3-matrix kit 3 tubes of 200 mg each of recrystallized matrix: <ul style="list-style-type: none">• 3-hydroxypicolinic acid matrix (HPA)• Picolinic acid matrix (PA)• 2,4,6 trihydroxyacetophenone matrix (246THAP)

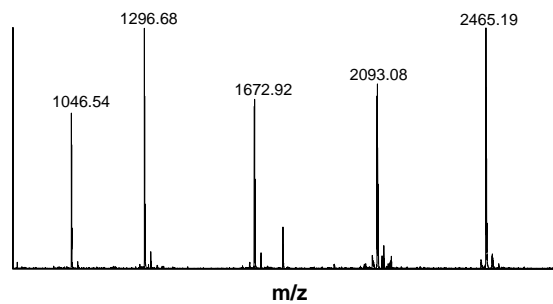
Peptide Calibration Mixtures



C101

Peptide calibration mix 1 (PepMix1) 1000-2500 Da

5 tubes of peptide calibration mixture 1. Each tube provides 1000 calibration points



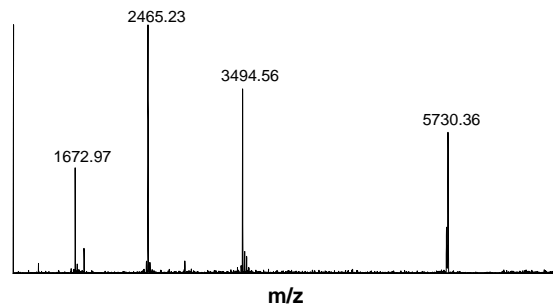
Contains :

Angiotensin II	(1046.2 Da)
Angiotensin I	(1296.5 Da)
Neurotensin	(1672.9 Da)
ACTH [1-17]	(2093.5 Da)
ACTH [18-39]	(2465.7 Da)

C102

Peptide calibration mix 2 (PepMix2) 1500-6000 Da

5 tubes of peptide calibration mixture 2. Each tube provides 1000 calibration points



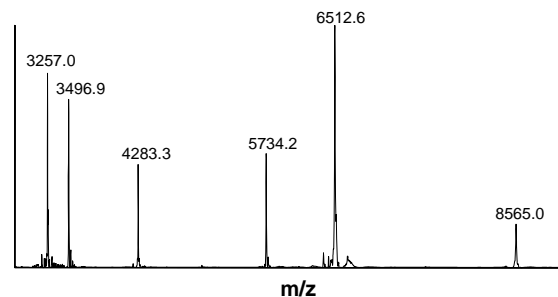
Contains :

Neurotensin	(1672.9 Da)
ACTH [18-39]	(2465.7 Da)
Bovine Insulin chain B	(3495.9 Da)
Bovine Insulin	(5733.6 Da)

C103

Peptide calibration mix 3 (PepMix3) 3000-9000 Da

5 tubes of peptide calibration mixture 3. Each tube provides 1000 calibration points



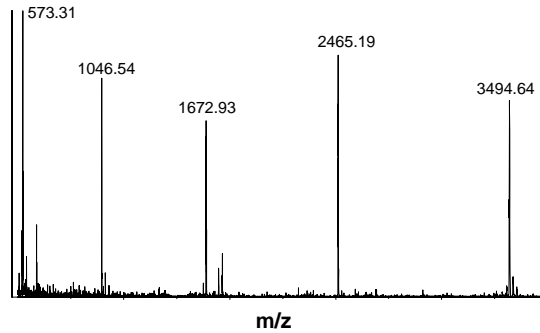
Contains:

Bovine Insulin chain B	(3495.9 Da)
Bovine Insulin	(5733.6 Da)
Aprotinin	(6511.5 Da)
Ubiquitin bovine	(8564.8 Da)

C104

Peptide calibration mix 4 (ProteoMix) 500-3500 Da

5 tubes of peptide calibration mixture 4. Each tube provides 1000 calibration points. Specially developed for calibration of proteolytic peptide mixtures and proteomics applications

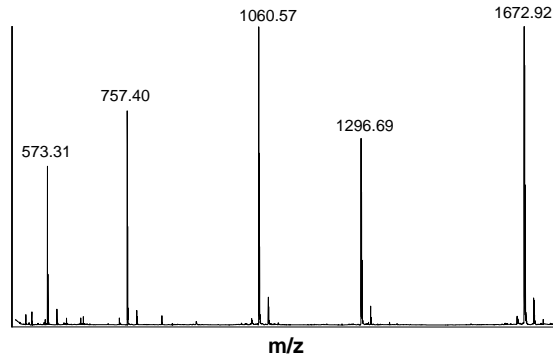


Contains:
Bradykinin [1-5] (572.7 Da)
Angiotensin II (1046.2 Da)
Neurotensin (1672.9 Da)
ACTH [18-39] (2465.7 Da)
Bovine Insulin chain B (3495.9 Da)

C105

Peptide calibration mix 5 (PepMix5) 500-2000 Da

5 tubes of peptide calibration mixture 5. Each tube provides 1000 calibration points

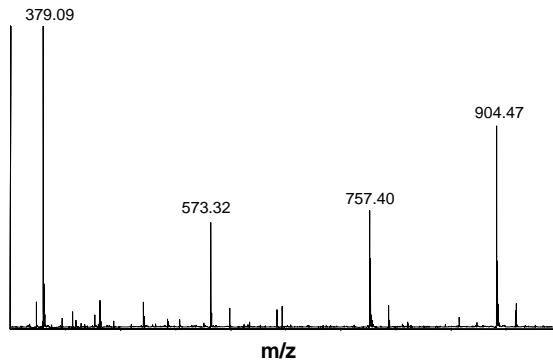


Contains:
Bradykinin [1-5] (572.7 Da)
Bradykinin [1-7] (756.9 Da)
Bradykinin (1060.2 Da)
Angiotensin I (1296.5 Da)
Neurotensin (1672.9 Da)

C106

Peptide calibration mix 6 (PepMix6) 350-1000 Da

5 tubes of peptide calibration mixture 6. Each tube provides 1000 calibration points



Contains:
Bradykinin [1-5] (572.7 Da)
Bradykinin [1-7] (756.9 Da)
Bradykinin [1-8] (904.0 Da)

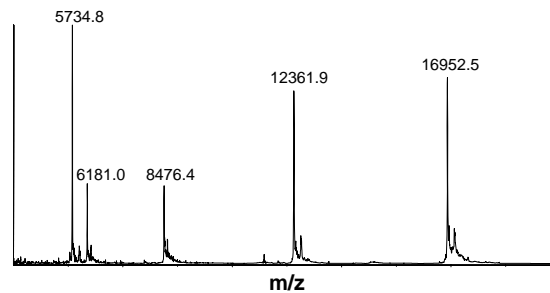
Protein Calibration Mixtures



C107

Protein calibration mix 1 (ProMix1) 5,700-17,000 Da

5 tubes of protein calibration mixture 1. Each tube provides 1000 calibration points

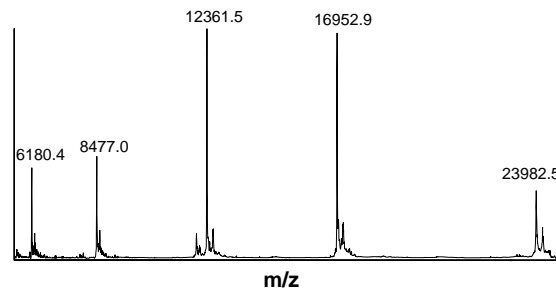


Contains:
 Bovine Insulin (5733.6 Da)
 Horse heart cytochrome C (12360.1 Da)
 Horse myoglobin (16951.5 Da)

C108

Protein calibration mix 2 (ProMix2) 8,000-24,000 Da

5 tubes of protein calibration mixture 2. Each tube provides 1000 calibration points

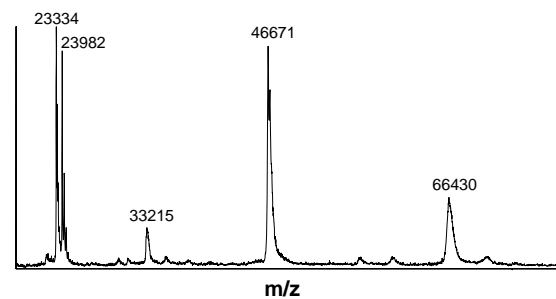


Contains:
 Horse heart cytochrome C (12360.1 Da)
 Horse myoglobin (16951.5 Da)
 Trypsinogen (23980.9 Da)

C109

Protein calibration mix 3 (ProMix3) 23,000-66,000 Da

5 tubes of protein calibration mixture 3. Each tube provides 1000 calibration points



Contains:
 Trypsinogen (23980.9 Da)
 Yeast enolase (46670.9 Da)
 Bovine serum albumin (66429.9 Da)

C110

Protein calibration standards 12,000-66,000 Da

5 tubes of individual protein calibrants. Each tube provides 1000 calibration points

Horse heart cytochrome C	(12360.1 Da)
Horse myoglobin	(16951.5 Da)
Trypsinogen	(23980.9 Da)
Yeast enolase	(46670.9 Da)
Bovine serum albumin	(66429.9 Da)

Calibration Kits



Our calibration kits contain calibrated peptide and protein mixtures, designed for analytical reproducibility and consistent signal-to-noise ratio, as well as individual calibrants and diluent. They provide reproducible, standard analytical conditions and eliminate the need for cumbersome preparation of calibrant mixtures.

They are prepared and conditioned with the highest purity chemicals, in a form adapted to everyday use in the mass spectrometry laboratory.



C001	Peptide calibration Kit I (1000-8500 Da) <ul style="list-style-type: none">• Peptide calibration mixtures 1 (PepMix1), 2 (PepMix2) and 3 (PepMix3). 1 tube each. Each tube provides 1000 calibration points• Four single calibrant peptides: Angiotensin II (1046.2 Da), ACTH [18-39] (2465.7 Da), Bovine Insulin chain B (3495.9 Da), Bovine Insulin (5733.6 Da)• 1 tube of mixture diluent (0.01% TFA)
C002	Peptide calibration Kit II (0-2000 Da) <ul style="list-style-type: none">• Peptide calibration mixtures 1 (PepMix1), 5 (PepMix5) and 6 (PepMix6). 1 tube each. Each tube provides 1000 calibration points• Four single calibrant peptides: Bradykinin [1-5] (572.7 Da), Angiotensin II (1046.2 Da), Neurotensin (1672.9 Da), ACTH [18-39] (2465.7 Da)• 1 tube of mixture diluent (0.01% TFA)
C003	Protein calibration Kit (5-100 kDa) <ul style="list-style-type: none">• 1 tube each of protein calibration mixtures 1 (ProMix1), 2 (ProMix2) and 3 (ProMix3). Each tube provides 1000 calibration points• Four single calibrant proteins: Bovine Insulin (5733.6 Da), Horse myoglobin (16951.5 Da), Yeast enolase (46670.9 Da), Bovine serum albumin (66429.9 Da)• 1 tube of mixture diluent (0.01% TFA)
C004	Peptide / Protein calibration Kit (1-100 kDa) <ul style="list-style-type: none">• 1 tube each of peptide calibration mixtures 1 (PepMix1), 2 (PepMix2) and 3 (PepMix3). Each tube provides 1000 calibration points• 1 tube each of protein calibration mixtures 2 (ProMix2) and 3 (ProMix3). Each tube provides 100 calibration points• Four single calibrant peptides: Angiotensin II (1046.2 Da), ACTH [18-39] (2465.7 Da), Bovine Insulin chain B (3495.9 Da), Bovine Insulin (5733.6 Da)• Four single calibrant proteins: Horse myoglobin (16951.5 Da), Trypsinogen (23980.9 Da), Yeast enolase (46670.9 Da), Bovine serum albumin (66429.9 Da)• 1 tube of mixture diluent (0.01% TFA)

Protein Trypsin Digests Kits



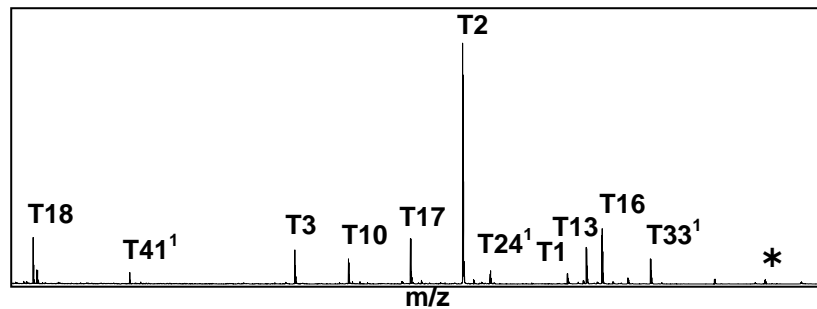
Our protein digests kits contain calibrated peptide mixtures, obtained from controlled trypsin digestion of well characterized proteins. They provide quantified, standardized digests for proteomics and LC-MS applications. They eliminate the variability and cumbersome preparation of trypsin digestions. Digests are prepared with pure natural proteins and conditioned, in a form adapted to everyday use in the mass spectrometry laboratory.



D101

Myoglobin trypsin digest

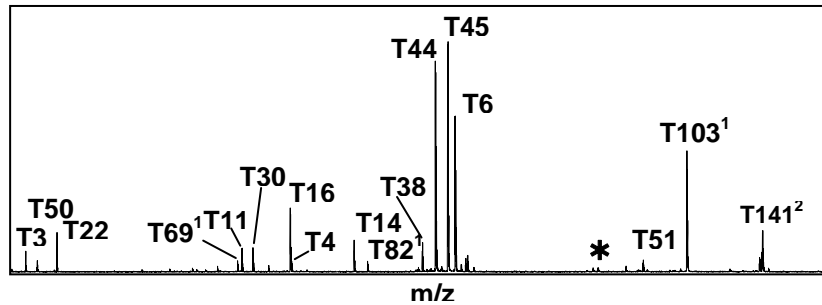
5 tubes of digest D101. Each tube contains 50 picomoles of digested protein



D102

Enolase trypsin digest

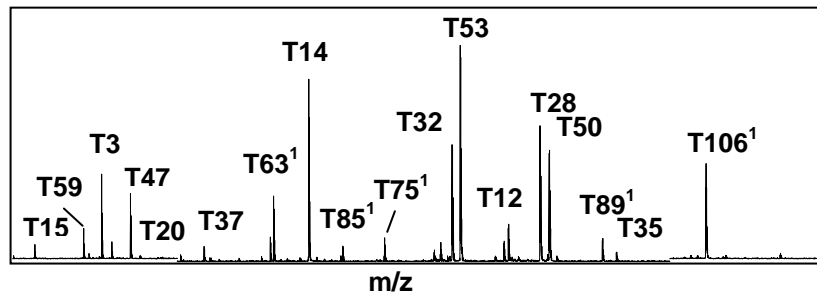
5 tubes of digest D102. Each tube contains 50 picomoles of digested protein



D103

Glutamate dehydrogenase trypsin digest

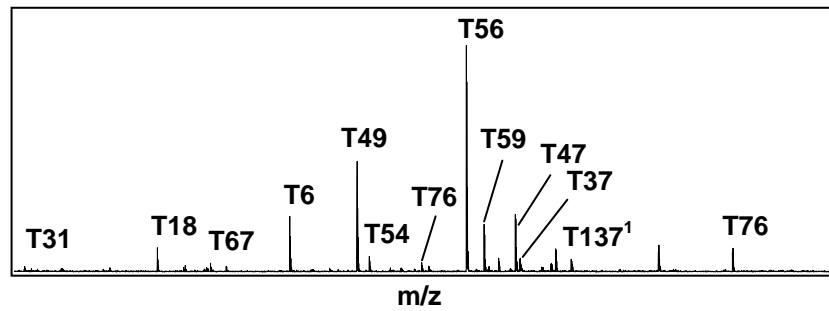
5 tubes of digest D103. Each tube contains 50 picomoles of digested protein



D104

BSA trypsin digest

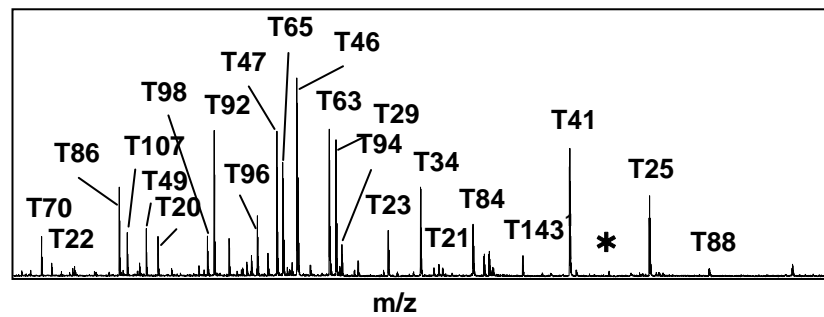
5 tubes of digest D103. Each tube contains 50 picomoles of digested protein



D105

Glycogen phosphorylase trypsin digest

5 tubes of digest D105. Each tube contains 50 picomoles of digested protein



D106

Trypsin digest Mix

1 tube each of digests D101 (Myoglobin), D102 (Enolase), D103 (Glutamate dehydrogenase), D104 (BSA) and D105 (Glycogen phosphorylase). Each tube contains 50 picomoles of digested protein

MALDI IMAGING SOLUTIONS



For perfect results in MALDI imaging experiments, we offer a range of products from highly purified MALDI matrices to ITO-coated slides in various packages

Our dedicated Imaging starter kit provides a specially tailored slide holder and consumables needed to run MALDI imaging experiments, including conductive slides, water-sensitive paper for control of spray conditions, mass calibrants and MALDI matrices.



P/N	Designation
IMG-001	MALDI imaging starter kit for ABI 4800
IMG-101	MALDI imaging starter kit / generic
IMG-102	ITO slides (25)
IMG-103	ITO slides (100)
IMG-104	Water-sensitive paper - 26x76 mm (Pack of 25)
IMG-105	Double-side conductive copper tape - 25 mm (Pack of 20)
IMG-106	Double-side adhesive for glass slides
IMG-107	Image Mix 1 - Calibration standards - MSI small molecules
IMG-108	Image Mix 2 - Calibration standards - MSI peptides
IMG-109	Image Mix 3 - Calibration standards - MSI Proteins
IMG-110	Matrix & Calibrants MSI starter pack

MALDI imaging starter kit Product description

Kit IMG-001 is designed for MALDI imaging applications with the Applied Biosystems / Sciex 4800 and 5800 MALDI TOF/TOF systems. The kit contains a specially designed microscope slide adaptor based on an Opti-TOF® LC-MALDI insert. The insert holds two microscope slides for MALDI imaging experiments.

In order to facilitate the setup of imaging experiments and provide a complete solution, the kit also contains the following components :

- 25 ITO-coated conductive microscope slides. *LaserBio Labs* offers ITO slides marked on the conductive side for easier handling
- 25 pieces of water-sensitive paper for spray control. The water-sensitive paper is coated with a chemical that turns blue when sprayed with liquid. The papers are the size of microscope slides and will allow optimization of matrix spray conditions
- 25 pieces of double-side adhesive conductive tape. The tape is used to ensure electrical contact of the microscope slides with the adaptor and to mount tissue or material without glass slides.
- 50 pieces of double-side adhesive to affix the microscope slides in the Opti-TOF® holder
- A Matrix & Calibrants MALDI Imaging starter pack. The pack includes peptide and protein mixes for calibration of samples in the small molecule, peptide and protein mass ranges. MALDI matrix (CHCA and SA) is also included for method development
- A kit brochure

Service, custom orders and OEM products

For questions about our product line, problems with products or technical advice on protocols, please contact us at the address below.

We are committed to providing adequate analysis solutions to our customers. For custom orders, high volume discount, of OEM products please consult with us.

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