

Materials List for:

Two-dimensional Gel Electrophoresis Coupled with Mass Spectrometry Methods for an Analysis of Human Pituitary Adenoma Tissue Proteome

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Materials

Name	Company	Catalog Number	Comments
Ettan IPGphor 3	GE Healthcare		isoelectric focusing system.
Ettan DALTsix multigel caster	Amersham Pharmacia Biotech, Piscataway, NJ, USA		
Ettan DALT II System	Amersham Pharmacia Biotech, Piscataway, NJ, USA		The vertical electrophoresis system
Ettan IPGphor strip holder	Amersham Pharmacia Biotech, Piscataway, NJ, USA		
Ettan DALTsix multigel caster	Amersham Pharmacia Biotech, Piscataway, NJ, USA		Multigel caster
Voyager DE STR MALDI-TOF MS	ABI, Foster City, CA		MALDI-MS PMF
MALDI-TOF-TOF	Autoflex III, Bruker		MALDI-MS/MS mass spectrometer
LTQ-Orbitrap Velos Pro ETD	Thermo Scientific, Waltham, MA, USA		ESI-MS/MS mass spectrometer
EASY-nano LC system	Proxeon Biosystems, Odense, Denmark		High performance liquid chromatography system
PepMap C18 trap column	300 µm i.d. × 5 mm length; Dionex Corp., Sunnyvale, CA, USA		
RP C18 column	75 µm i.d., 15 cm length; Dionex Corp., Sunnyvale, CA, USA		
KimWipe	Kimwipe		Insoluble paper towel
Watter	Made by PURELAB flex instrument		
Polytron Model P710/35 homogenizer	Brinkmann Instruments, Westbury, NY		
PDQuest	Bio-Rad, Hercules, CA		2D gel image analysis software
SEQUEST	Thermo Proteome Discoverer 1.3 (version No. 1.3.0.339)		
DataExplore (ver. 4.0.0.0) software			MS spectrum-processing software
Mascot software			PMF-based protein searching software
Mascot software			MS/MS-based protein searching software
Proteome Discoverer software v.1.3 beta	Thermo Scientific		
Xcalibur software v.2.1			MS/MS data-acquired management software
Uniprot version 201410.1_HUMAN.fasta			Human protein database

SEQUEST (version No. 1.3.0.339)			MS/MS-based protein searching software I
MASCOT (version 2.3.02)			MS/MS-based protein searching software II
C18 ZipTip microcolumn	Millipore		
PeptideMass Standard kit	Perspective Biosystems		
Pierce BCA Protein Assay Kit	Thermo Fisher Scientific	23227	
2-D Quant Kit	GE Healthcare	80-6483-56	
BIS-ACRYLAMIDE	AMRESCO	0172	
ACRYLAMIDE	AMRESCO	0341	
DTT	Sigma-Aldrich	D0632	
Thiourea	Sigma-Aldrich	T8656	
Urea	VETEC	V900119	
SDS	AMRESCO	0227	
CHAPS	AMRESCO	0465	
TEMED	AMRESCO	M146	
Ammonium Persulfate	AMRESCO	M133	
Trypsin	Promega, Madison, WI, USA	V5111	
IPG buffer pH 3-10, NL	GE Healthcare	17-6000-87	
Immobiline Dry Strip pH 3-10NL, 18cm	GE Healthcare	17-1235-01	