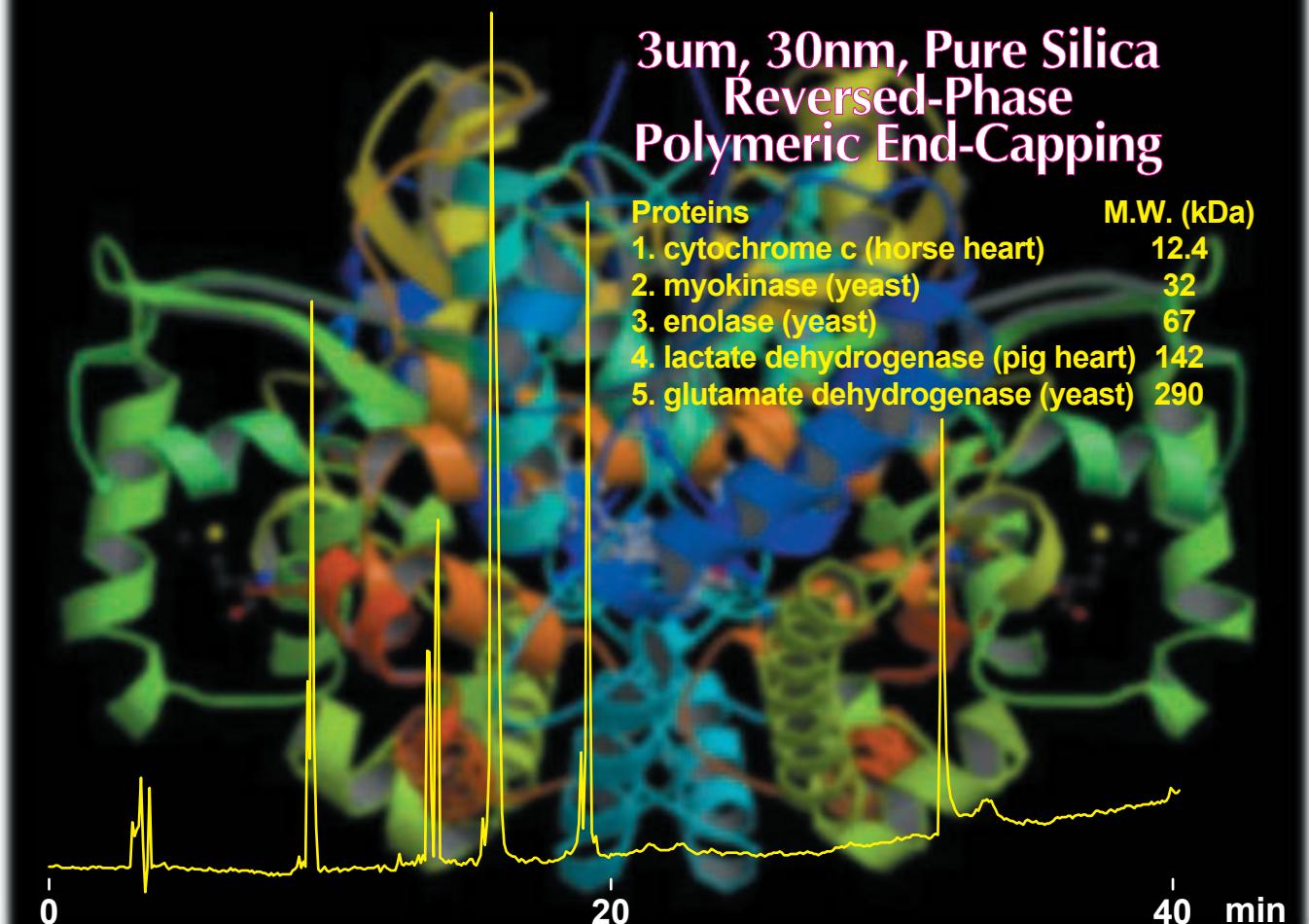


# Intradia WP-RP

3um, 30nm, Pure Silica  
Reversed-Phase  
Polymeric End-Capping

Proteins	M.W. (kDa)
1. cytochrome c (horse heart)	12.4
2. myokinase (yeast)	32
3. enolase (yeast)	67
4. lactate dehydrogenase (pig heart)	142
5. glutamate dehydrogenase (yeast)	290



250 x 4.6 mm, A: 0.1%TFA in water, B: 0.07%TFA in ACN, 20-85%B (0-40min), 1mL/min (14 MPa), 37 deg.C , 280nm , 10uL

## Reversed-Phase Column for Polymer Separation

Reversed-phase tailored with a 30nm pore size

Optimal for the separation of proteins and other large molecules

## Superior Resolution Column with 3um Particles

High resolution 3um Silica is used

Radically improved column efficiency compared with conventional 5um columns

## Optimal Structure Polarity for Faster Polymer Elution

Uses a newly developed reversed-phase ligand

Highly hydrophobic polymer elution made possible by optimal surface polarity

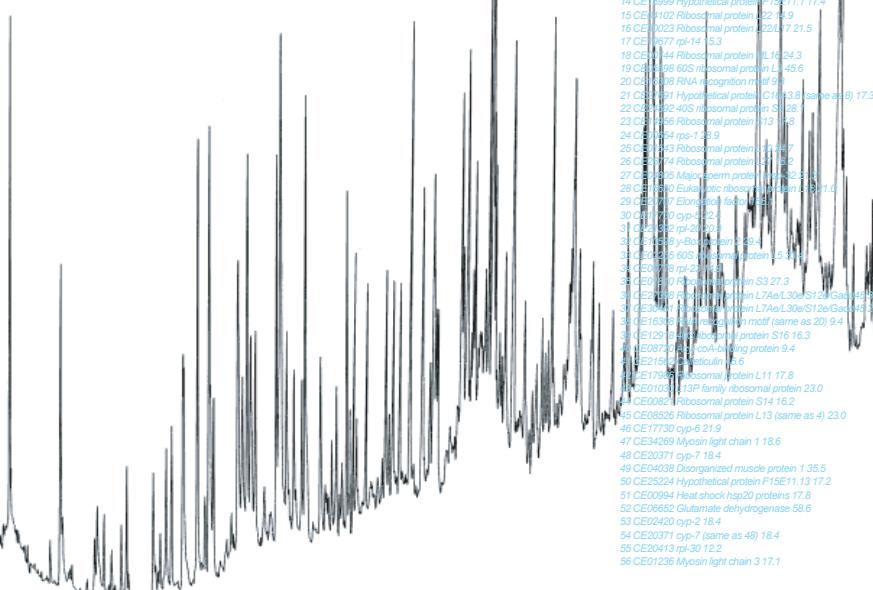
Key specifications: 3um particle size, 30nm pore size, special ligand for reversed-phase, polymeric end-capping

# High Resolution Separation of 111 Proteins ( 9-225 kDa )

New proteomic analytical method called the fluorescent labeled protein method using Intrada WP-RP (Courtesy of Professor Emeritus Imai, University of Tokyo, Japan). The 3um particular, 500mm column provides the ability to separate large numbers of proteins.

## An Improved method for proteomics studies in *C. elegans*

DAABO-Cl fluorescent-labeled *C.elegans*  
Separated by Intrada WP-RP  
Each peak fraction hydrolyzed with Trypsin  
Identified by LC-MS/MS



### Peak no. Wormpe ID Protein MW (kDa)

1	CE05741	Ribosomal protein S32	15.8
2	CE16202	ATPase inhibitor 12.0	
3	CE04505	60S ribosomal protein L35	14.2
4	CE05826	Ribosomal protein L19	23.7
5	CE32045	Hypothetical protein F1E11;12.35.8	
6	CE37011	Ribosomal protein YL39	16.1
7	CE03013	60S ribosomal protein L28	13.7
8	CE27691	Hypothetical protein C163.8	17.3
9	CE05622	60S ribosomal protein L35A	13.8
10	CE32060	Ribosomal protein S11	10.7
11	CE32008	Ribonucleoprotein	33.4
12	CE15911	60S ribosomal protein L34 like 12.7	
13	CE15012	40S ribosomal protein S29	13.2
14	CE15999	Hypothetical protein F1E11;11.17.4	
15	CE19102	Ribosomal protein L22	14.9
16	CE32003	Ribosomal protein S22	17.1
17	CE15777	rp-14	5.3
18	CE05827	Ribosomal protein L16	24.3
19	CE05629	60S ribosomal protein S16	15.6
20	CE32029	Ribosomal protein rp-16	
21	CE08811	Hypothetical protein C161.38 (same as 8)	17.3
22	CE15012	40S ribosomal protein S29	12.8
23	CE32056	Ribosomal protein YL39	15.8
24	CE05654	rp-12.8	9
25	CE32043	Ribosomal protein L19	14.7
26	CE32074	Ribosomal protein S11	10.2
27	CE32029	Major sperm protein	32.5
28	CE15940	Eukaryotic ribosomal protein S29	13.0
29	CE15717	Elongation factor 1α	16.2
30	CE15720	cyp-3	12.2
31	CE15722	rp-20.0	9
32	CE15739	yB-1 protein	15.9
33	CE15935	60S ribosomal protein L5	13.1
34	CE15718	rp-23.0	
35	CE15701	F1E11;13.13.20	27.3
36	CE15702	F1E11;13.13.20e/S129/Ga345.5	
37	CE15703	F1E11;13.13.20f/S129/Ga345.5	
38	CE15704	F1E11;13.13.20g/S129/Ga345.5	
39	CE15705	F1E11;13.13.20h/S129/Ga345.5	
40	CE15706	F1E11;13.13.20i/S129/Ga345.5	
41	CE15707	F1E11;13.13.20j/S129/Ga345.5	
42	CE15708	F1E11;13.13.20k/S129/Ga345.5	
43	CE15709	F1E11;13.13.20l/S129/Ga345.5	
44	CE15710	F1E11;13.13.20m/S129/Ga345.5	
45	CE15711	F1E11;13.13.20n/S129/Ga345.5	
46	CE17730	cyp-6	21.9
47	CE34269	Myosin light chain 1	18.6
48	CE20371	cyp-7	18.4
49	CE04038	Disorganized muscle protein	13.5
50	CE25224	Hypothetical protein F1E11;13.17.2	
51	CE00994	Heat shock hsp20 proteins	17.8
52	CE06652	Glutamate dehydrogenase	58.6
53	CE02420	cyp-2	18.4
54	CE20371	cyp-7 (same as 48)	18.4
55	CE20413	rp-30	12.2
56	CE01236	Myosin light chain 3	17.1

### Peak no. Wormpe ID Protein MW (kDa)

57	CE30432	60S acidic ribosomal protein p2	10.8
58	CE09945	40S ribosomal protein S15	17.2
59	CE19095	Hypothetical protein Y38f6C	1.9
60	CE05849	Ribosomal protein S9	21.9
61	CE05165	Histone H2B	15.6
62	CE07669	Ribosomal protein L38	6.6
63	CE29558	Hypothetical protein C04C3.2	29.9
64	CE29443	Channel protein 33.0	
65	CE25552	rp-1	24.1
66	CE09349	Myosin heavy chain B	225.0
67	CE11024	rp-7	28.1
68	CE28782	Tropomyosin, LEVamisole resistant LEV-11	33.0
69	CE06253	Myosin heavy chain 224.6	
70	CE24278	Ribosomal protein S4E and KOW	29.0
71	CE22594	Ribosomal protein p4-2	10.9
72	CE09690	Nucleotide diphosphate kinase	17.1
73	CE02070	Pyrophosphatase-1,b'-bisphosphate adductase class-I, CE2 isozyme	38.8
74	CE01270	Elongation factor 1-γ	50.6
75	CE09912	Malate dehydrogenase	35.1
76	CE05719	ATPase	25.6
77	CE05912	Malate dehydrogenase (same as 75)	35.1
78	CE05777	40S ribosomal protein S7	30.7
79	CE03894	Enolase	46.6
80	CE00134	far-2	20.0
81	CE19810	Phosphoenolpyruvate carboxykinase	73.4
82	CE06577	40S ribosomal protein S7 (same as 78)	22.0
83	CE08110	hsp-70	70.6
84	CE18826	Hypothetical protein H2B016.1a	57.8
85	CE09115	Mitochondrial 40S ribosomal protein S5	23.1
86	CE28594	vt-6	193.3
87	CE32364	Hypothetical protein F09E5.2	65.1
88	CE09659	Deoxyribonuclease	33.8
89	CE28594	vt-6 (same as 86)	193.1
90	n.r.	Actin	54.7
91	CE03921	vt-5	186.3
92	CE04589	Arginine kinase	42.0
93	n.r.	Ribosomal protein P1 homolog	11.3
94	CE04163	Actin	41.6
95	n.r.	ATP synthase	51.5
96	CE04041	Hypothetical protein F40F9.5	32.2
97	CE01431	Annexin family protein 1	35.7
98	CE13150	edt-2	41.8
99	CE03921	vt-5 (same as 91)	186.3
100	CE09682	HSP-1	70.6
101	CE19186	Ribosomal protein L7Ae	14.0
102	CE12898	ADP/PATP translocase	33.0
103	n.r.	Translation elongation factor eEF-2	94.7
104	CE20900	vt-3	186.4
105	n.r.	Chain A, crystal structure of <i>C. elegans</i> Mg-Atp 41.6	
		actin complexed with human gelolin segment 1	
106	CE29950	ATP synthase beta chain (atp-2)	57.5
107	CE13148	Actin	41.8
108	CE02548	Elongation factor 1	22.7
109	CE02600	14-3-3-like protein	28.1
110	CE07649	Cystathione -Y-ase	43.1
111	CE2385	Glutathione S-transferase, C-terminal and elongation factor 1, γ-chain	42.0

Intrada WP-RP, 500x4.6mm, A) water/ACN/TFA=90/10/0.1, B) water/ACN/TFA=30/70/0.1, 0-20% B(0-20min), 20-60% B(20-180min), 0.5mL/min, Ex.387nm, Em.508nm, 30uL  
Courtesy of Prof. Imai, Musashino Univ. M.Masuda, H.Saimaru, N.Takamura and K.Imai, Biomed. Chromatogr., 19, 556-560 (2005)

## Product Code Information

### Intrada WP-RP 3um particles, Special reversed-phase ligand, Polymeric end-capping

Length (mm)	1 mm I.D.	2 mm I.D.	3 mm I.D.	4.6 mm I.D.	6 mm I.D.	10 mm I.D.
30	WPR11	WPR21	WPR31	WPR01	WPR61	WPRP1
50	WPR12	WPR22	WPR32	WPR02	WPR62	WPRP2
75	WPR13	WPR23	WPR33	WPR03	WPR63	WPRP3
100	WPR14	WPR24	WPR34	WPR04	WPR64	WPRP4
150	WPR15	WPR25	WPR35	WPR05	WPR65	WPRP5
250	WPR16	WPR26	WPR36	WPR06	WPR66	WPRP6
500				WPR07		

### Guard Cartridge WP-RP

Sep. Column	Prod.Code	Notes
For 1mm I.D.	GCWPRC	5 x 1 mm, 3pcs
For 2-6mm I.D.	GCWPRS	5 x 2 mm, 3pcs
For 10mm I.D.	GCWPRM	10 x 8 mm, 2pcs

### Guard Holder

Sep. Column	Prod.Code
For 1-6mm I.D.	GCH01S
For 10mm I.D.	GCH02M

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