



## **Sigma Enzymes, Coenzymes and Enzyme Substrates**

### *Library Listing – 485 spectra*

This library represents a material-specific subset of the larger Sigma Biochemical Condensed Phase Library relating to enzymes, coenzymes and enzyme substrates found in the Sigma Biochemicals and Reagents catalog.

Spectra acquired by Sigma-Aldrich Co. which were examined and processed at Thermo Fisher Scientific. The spectra include compound name, molecular formula, CAS (Chemical Abstract Service) registry number, and Sigma catalog number.

## Sigma Enzymes, Coenzymes and Enzyme Substrates

<u>Index</u>	<u>Compound Name</u>	<u>Index</u>	<u>Compound Name</u>
484	(E)-Vaccenoyl coenzyme A	298	Azo soybean flour
483	(Z)-Vaccenoyl coenzyme A	295	Azoalbumin
400	1,N6-Etheno acetyl coenzyme A, Li salt	296	Azocasein
401	1,N6-Etheno coenzyme A, Na + Li salt	297	Azocoll
397	11,14,17-Eicosatrienoyl coenzyme A	379	Behenoyl coenzyme A
396	11,14-Eicosadienoyl coenzyme A	380	Benzoyl coenzyme A, Li salt
395	11-Eicosaoenoyl coenzyme A	343	Bis-(p-nitrophenyl) phosphate
321	2-(b-D-Galactosidoxy)naphthol AS-LC	344	Bis-(p-nitrophenyl) phosphate, Ca salt
394	3'-Dephosphocoenzyme A	345	Bis-(p-nitrophenyl) phosphate, Na salt
370	3-Acetylpyridine adenine dinucleotide	381	Brassidoyl coenzyme A
372	3-Acetylpyridine adenine dinucleotide phosphate, Na salt	9	Carbamate kinase from streptococcus faecalis
371	3-Acetylpyridine adenine dinucleotide, reduced form	310	Carbamyl phosphate, diammonium salt
373	3-Acetylpyridine-hypoxanthine dinucleotide	311	Carbamyl phosphate, dilithium salt
375	3-Aminopyridine adenine dinucleotide	312	Carbamyl phosphate, disodium salt
376	3-Aminopyridine adenine dinucleotide phosphate, Na salt	10	Carbonic anhydrase from bovine erythrocytes
257	3-Phosphoglyceric phosphokinase from bakers yeast	11	Carboxypeptidase p
256	3-Phosphoglyceric phosphokinase from rabbit muscle	313	Casein, fluorescein isothiocyanate type I
474	3-Pyridinealdehyde adenine dinucleotide	314	Casein, fluorescein isothiocyanate type II
475	3-Pyridinealdehyde hypoxanthine dinucleotide, Na salt	315	Casein, fluorescein isothiocyanate type III
164	3a-Hydroxysteroid dehydrogenase	13	Catalase from bovine liver
212	5'-Nucleotidase	12	Catalase purified from bovine liver
301	5-Bromo-4-chloro-3-indolyl acetate	14	Catechol-O-methyltransferase from porcine liver
303	5-Bromo-4-chloro-3-indolyl b-D-galactopyranoside	15	Cellulase type VII from penicillium funiculosum
304	5-Bromo-4-chloro-3-indolyl sulfate, K salt	316	Cellulose-azure type I
302	5-Bromo-6-chloro-3-indolyl acetate	317	Cellulose-azure type II
305	5-Bromoindoxyl acetate	318	Chitin azure
299	6-Benzoyl-2-naphthyl phosphate, Na salt	16	Chloroperoxidase from caldariomyces fumago
300	6-Benzoyl-2-naphthyl sulfate, K salt	17	Cholesterol esterase from bovine pancreas
307	6-Bromo-2-naphthyl a-D-galactopyranoside	18	Cholesterol oxidase from schizophyllum commune
308	6-Bromo-2-naphthyl a-D-glucopyranoside	19	Cholesterol oxidase from streptomyces species
306	6-Bromo-2-naphthyl acetate	20	Choline acetyltransferase from bovine brain
309	6-Bromo-2-naphthyl sulfate, K salt	21	Choline oxidase from alcaligenes species
167	7a-Hydroxysteroid dehydrogenase from E.coli	23	Cholinesterase acetyl type XIII from human erythrocytes
166	7a-Hydroxysteroid dehydrogenase from E.coli	24	Cholinesterase butyryl type IV-S
374	8-(6-Aminoethyl)aminonicotinamide adenine dinucleotide	25	Cholinesterase butyryl type VII from human serum
367	Acetoacetyl coenzyme A, Na salt	26	Cholinesterase butyryl type XI from horse serum
369	Acetyl coenzyme A, Li salt	22	Cholinesterase,acetyl type XII-S
368	Acetyl coenzyme A, Na salt	27	Choloylglycine hydrolase
1	Allantoinase from peanut	28	Choloylglycine hydrolase
293	Amylopectin azure from potato	29	Chymopapain from papaya latex
4	Apotryptophanase from E coli	384	Coenzyme A from yeast, Li salt
5	Apyrase from potato	383	Coenzyme A glutathione disulfide, Na salt
377	Arachidonoyl coenzyme A	386	Coenzyme A, Na salt
378	Arachidoyl coenzyme A	385	Coenzyme A, oxidized,, Li salt
6	Arginase from bovine liver	387	Coenzyme B12
7	Asparaginase from E. coli	391	Coenzyme Q10 from bovine heart
8	Avidin-peroxidase labeled with type VI	388	Coenzyme Q6 from saccharomyces cerevisiae
294	Avidin-rhodamine isothiocyanate powder	389	Coenzyme Q7 from candida utilis

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390	Coenzyme Q9 from candida utilis	68	Fructose-6-phosphate kinase, pyrophosphate dependent
319	Collagen type II, from bovine achilles tendon	67	Fructose-6-phosphate kinase, pyrophosphate dependent
320	Collagen type III, from calf skin	70	Gabase from pseudomonas fluorescens
37	Collagenase type VII	71	Galactose oxidase type V from dactylium dendroides
39	Creatinase	72	Galactose-1-phosphate uridyl transferase type IV
38	Creatinase from flavobacterium species	73	Glucokinase from bacillus stearothermophilus
40	Creatine phosphokinase type I from rabbit muscle	74	Glucose dehydrogenase from bacillus species
41	Creatine phosphokinase type III	75	Glucose dehydrogenase from calf liver
42	Creatine phosphokinase type IV	79	Glucose oxidase from aspergillus niger
43	Creatininase from pseudomonas species	76	Glucose oxidase type II
44	Crotonase from bovine liver	77	Glucose oxidase type VII from aspergillus niger
392	Crotonoyl coenzyme A, Li salt	78	Glucose oxidase type X from aspergillus niger
45	Cytochrome oxidase from bovine heart	80	Glucose oxidase-biotin labeled
322	D-Glucose 6-phosphate, Ba salt	81	Glucose-6-phosphatase from rabbit liver
323	D-Glucose 6-phosphate, dipotassium salt	83	Glucose-6-phosphate dehydrogenase type IX from yeast
324	D-Glucose 6-phosphate, disodium salt	84	Glucose-6-phosphate dehydrogenase type V from yeast
176	D-Lactic dehydrogenase from staphylococcus epidermis	85	Glucose-6-phosphate dehydrogenase type XII
286	D-Ribulose 1,5-diphosphate carboxylase	86	Glucose-6-phosphate dehydrogenase type XV from yeast
287	D-Ribulose 5-phosphate 3-epimerase from bakers yeast	87	Glucose-6-phosphate dehydrogenase type XXIV
407	DL-3-Hydroxy-3-methylglutaryl coenzyme A, Na salt	82	Glucose-6-phosphate dehydrogenase type XXV
326	DL-a-Glycerophosphate, disodium salt	111	Glutamic-oxalacetic transaminase type II-A from porcine heart
325	DL-a-Glycerophosphate, disodium salt	112	Glutamic-pyruvic transaminase lyophilized
47	Deoxyribonuclease I crude lyophilized	113	Glutaminase from E coli
46	Deoxyribonuclease I type I from bovine pancreas	402	Glutaryl coenzyme A, Li salt
48	Deoxyribonuclease II type V from bovine spleen	120	Glutathione S-transferase from bovine liver
49	Deoxyribonuclease II type VII from bovine spleen	121	Glutathione S-transferase from equine liver
50	Deoxyribonuclease II type VIII from porcine spleen	118	Glutathione reductase type II from wheat germ
51	Deoxyribonucleic acid polymerase from micrococcus I	119	Glutathione reductase type VII from bovine intestinal mucosa
54	Dextranase crude	124	Glyceraldehyde-3-phosphate dehydrogenase from bakers yeast
52	Dextranase from A penicillium species	123	Glyceraldehyde-3-phosphate dehydrogenase from chicken muscle
53	Dextranase from A penicillium species	122	Glyceraldehyde-3-phosphate dehydrogenase from human eryth.
55	Diamine oxidase from porcine kidney	125	Glyceraldehyde-3-phosphate dehydrogenase/3-phosphoglyceric phosphokin
56	Diaphorase type II-L from clostridium kluveri	127	Glycerokinase from E coli
57	Dopamine b-hydroxylase, from bovine adrenals	126	Glycerokinase from candida utilis
58	Driselase		
398	Elaidyl coenzyme A		
59	Elastase type III from porcine pancreas		
60	Elastase type IV from porcine pancreas		
61	Enolase from bakers yeast		
62	Enterokinase from porcine intestine		
399	Erucoyl coenzyme A		
63	Ferredoxin-nadp plus reductase		
64	Ficin from fig tree latex lyophilized		
65	Formaldehyde dehydrogenase from pseudomonas putida		
66	Formimino-L-glutamic acid transferase from porcine liver		

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129	Glycerol dehydrogenase from enterobacter aerogenes	110	L-Glutamic dehydrogenase type VI from bovine liver
130	Glycerol-3-phosphate oxidase from aerococcus viridans	114	L-Glutamine synthetase type III
131	Glycerol-3-phosphate oxidase from pediococcus sp.	148	L-Histidine decarboxylase type I from C perfringens
132	Glycerol-3-phosphate oxidase from streptococcus thermophilus	149	L-Histidine decarboxylase type II from C perfringens
134	Glycolate oxidase from spinach	150	L-Histidine decarboxylase type III from lactobacillus
135	Glyoxalase II from beef liver	177	L-Lactic dehydrogenase type XI from rabbit muscle
136	Hemicellulase from aspergillus niger	187	L-Lysine decarboxylase from B cadaveris type I
403	Heneicosanoyl coenzyme A	188	L-Lysine decarboxylase type III
137	Heparinase from flavobacterium heparinum	215	L-Ornithine decarboxylase
138	Hesperidinase from aspergillus niger	216	L-Ornithine decarboxylase from E. coli
139	Hesperidinase from penicillium species	240	L-Phenylalanine decarboxylase from streptococcus faecalis
145	Hexokinase type F-300	327	L-a-Glycerophosphate, di(CHA) salt
140	Hexokinase type III from bakers yeast	179	Lactoperoxidase from bovine milk
141	Hexokinase type IV from bakers yeast	178	Lactoperoxidase from bovine milk
142	Hexokinase type V from bakers yeast	180	Laminarinase from penicillium species
143	Hexokinase type VI from bakers yeast	411	Lauroyl coenzyme A
144	Hexokinase type VII from bakers yeast	181	Leucine aminopeptidase cytosol type V
333	Hide powder azure	183	Leucine aminopeptidase microsomal type VI
332	Hide powder slightly chromated	182	Leucine aminopeptidase microsomal type VI-S
146	Histidase from pseudomonas fluorescens	412	Lignoceroyl coenzyme A
147	Histidase from pseudomonas fluorescens	413	Linolenoyl coenzyme A
151	Hyaluronidase type I-S	415	Linoleoyl coenzyme A,
152	Hyaluronidase type II lyophilized	414	Linoleoyl coenzyme A, Li salt
153	Hyaluronidase type III lyophilized	184	Lipoamide dehydrogenase type V from torula yeast
155	Hyaluronidase type IV from bovine testes	185	Lipoxidase type I
154	Hyaluronidase type IV-S from bovine testes	186	Lipoxidase type I-S from soybean
156	Hyaluronidase type V	189	Lysing enzyme from rhizoctonia solani
157	Hyaluronidase type VI-S	190	Lysostaphin from staphylococcus staphylococcus
158	Hyaluronidase type VIII from bovine testes	193	Lysozyme chloride
163	Hydroxysteroid dehydrogenase	191	Lysozyme from chicken egg white
162	Hydroxysteroid dehydrogenase	192	Lysozyme from chicken egg white
161	Hydroxysteroid dehydrogenase type I dried cells	194	Lysozyme from human milk
168	Inorganic pyrophosphatase	196	Lyticase from arthrobacter luteus
171	Invertase from bakers yeast	197	Lyticase from arthrobacter luteus
170	Invertase from bakers yeast	195	Lyticase from arthrobacter luteus
172	Invertase from candida utilis	198	Malic dehydrogenase from porcine heart
408	Isobutyryl coenzyme A, Li salt	199	Malic dehydrogenase from thermus flavua
173	Isocitric dehydrogenase(nadp) type I from porcine heart	416	Malonyl coenzyme A, Li salt
174	Isocitric dehydrogenase(nadp) type VI from porcine heart	418	Methylmalonyl coenzyme A, Li salt
409	Isovaleryl coenzyme A	200	Mutanolysin
410	Isovaleryl coenzyme A, Li salt	169	Myo-inositol dehydrogenase
175	Kallikrein from porcine pancreas	201	Myokinase from bacillus stearothermophilus
69	L-Fucose dehydrogenase from porcine liver	420	Myristoleoyl coenzyme A
105	L-Glutamic decarboxylase type I	419	Myristoyl coenzyme A
106	L-Glutamic decarboxylase type II	382	N-Butyryl coenzyme A, Li salt
107	L-Glutamic decarboxylase type III	393	N-Decanoyl coenzyme A
108	L-Glutamic decarboxylase type IV		

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404	N-Heptadecanoyl coenzyme A	228	Pectinesterase from orange peel
405	N-Heptanoyl coenzyme A	230	Pectinesterase from tomato
406	N-Hexanoyl coenzyme A, Li salt	231	Pectolyase from aspergillus japonicus
463	N-Nonadecanoyl coenzyme A	232	Penicillinase type I from bacillus cereus
464	N-Nonanoyl coenzyme A	233	Penicillinase type II from bacillus cereus
465	N-Octanoyl coenzyme A	234	Penicillinase type IV from enterobacter cloacae
470	N-Pentadecanoyl coenzyme A		
473	N-Propionyl coenzyme A, Li salt	235	Pepsin
481	N-Tridecanoyl coenzyme A	236	Pepsinogen from porcine stomach
482	N-Undecanoyl coenzyme A	237	Peroxidase crude
485	N-Valeryl coenzyme A, Li salt	238	Peroxidase type I
203	NAD+ kinase type IV from liver	239	Peroxidase-dapa-biotin
202	Nadase from porcine brain	471	Petroselinoyl coenzyme A
204	Naringinase from penicillium sp.	347	Phenolphthalein diphosphate
421	Nervonoyl coenzyme A	348	Phenolphthalein glucuronic acid
205	Neuraminidase type V from clostridium perfringens	350	Phenolphthalein glucuronic acid, Na salt
206	Neuraminidase type VI	349	Phenolphthalein glucuronic acid, cinchonidine salt
207	Neuraminidase type VIII	351	Phenolphthalein monophosphate di(CHA) salt
453	Nicotinamide 1,N6-etheno adenine dinucleotide phosphate, Na salt	352	Phenolphthalein monophosphate, disodium salt
454	Nicotinamide guanine dinucleotide	353	Phenolphthalein monophosphate, pyridinium salt
457	Nicotinamide hypoxanthine dinucleotide phosphate, disodium salt	472	Phenylacetyl coenzyme A, Li salt
458	Nicotinamide hypoxanthine dinucleotide phosphate, reduced, Na salt	241	Phenylethanolamine N-methyltransferase
455	Nicotinamide hypoxanthine dinucleotide, Na salt	242	Phosphatase acid type I
456	Nicotinamide hypoxanthine dinucleotide, reduced, Na salt	243	Phosphatase acid type II
452	Nicotinamide-1-N6-etheno adenine dinucleotide	244	Phosphatase acid type IV-S
462	Nicotinic acid adenine dinucleotide, Na salt	252	Phospho(enol)pyruvate carboxylase from E.coli
209	Nuclease P-1 from penicillium citrinum	354	Phospho(enol)pyruvate, Ba salt .H2O
208	Nuclease from mung bean sprouts	355	Phospho(enol)pyruvate, CHA salt
210	Nucleoside 5'-diphosphate kinase from yeast	356	Phospho(enol)pyruvate, K salt
211	Nucleoside monophosphate kinase	357	Phospho(enol)pyruvate, tri(CHA) salt
213	Octopine dehydrogenase	358	Phospho(enol)pyruvate, trisodium salt .H2O
466	Oleoyl coenzyme A	251	Phosphodiesterase 3':5'-cyclic nucleotide activator
214	Ornithine carbamyltransferase from streptococcus faecalis	250	Phosphodiesterase 3':5'-cyclic nucleotide(C-amp)
217	Orotidine 5-monophosphate decarboxylase	245	Phosphodiesterase I type IV
218	Orotidine-5-phosphate pyrophosphorylase & decarboxylase	246	Phosphodiesterase I type V
219	Oxalate decarboxylase from collybia velutipes	247	Phosphodiesterase I type VI
220	Oxalate oxidase from barley seedlings	249	Phosphodiesterase II type I from bovine spleen
467	Palmitelaidoyl coenzyme A	248	Phosphodiesterase II type I-S from bovine spleen
468	Palmitoleoyl coenzyme A	253	Phosphoglucose isomerase
222	Pancreatin from porcine pancreas	254	Phosphoglucose isomerase type X from yeast
223	Pancreatin from porcine pancreas	255	Phosphoglucose isomerase, att.to polyacrylamide
221	Pancreatin from porcine pancreas	258	Phospholipase A2 from bee venom
225	Papain type I	259	Phospholipase A2 from naja mocambique
226	Papain type II	260	Phospholipase A2 from naja naja venom
224	Papain type IV	261	Phospholipase C type I from C perfringens
227	Pectinase from rhizopus sp.	263	Phospholipase C type III from B. cereus
229	Pectinesterase from orange peel		

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262	Phospholipase C type IX from <i>C. perfringens</i>	32	a-Chymotrypsin type VI
264	Phospholipase D type I from cabbage	36	a-Chymotrypsinogen A type II from bovine pancreas
265	Phospholipase D type II from peanut	88	a-Glucosidase type I from bakers yeast
266	Phospholipase D type III from peanut	89	a-Glucosidase type IV from brewers yeast
267	Phospholipase D type IV from cabbage	90	a-Glucosidase type VI from brewers yeast
268	Phospholipase D type V from cabbage	133	a-Glycerophosphate dehydrogenase type X from rabbit muscle
269	Phosphoriboisomerase type I from spinach	334	a-Naphthyl acid phosphate, Ca salt
270	Phosphoriboisomerase type II from spinach	335	a-Naphthyl acid phosphate, K salt
271	Phosphoriboisomerase type III from torula yeast	336	a-Naphthyl acid phosphate, Na salt
272	Phosphoribulokinase type II	338	a-Naphthyl phosphate, disodium salt
275	Phosphorylase kinase from rabbit muscle	422	a-Nicotinamide adenine dinucleotide
273	Phosphorylase-a from rabbit muscle	428	a-Nicotinamide adenine dinucleotide phosphate, Na salt
274	Phosphorylase-b from rabbit muscle	429	a-Nicotinamide adenine dinucleotide phosphate, reduced, Na salt
276	Phytase	423	a-Nicotinamide adenine dinucleotide, reduced, disodium salt
277	Polyol dehydrogenase from <i>Candida utilis</i>	459	a-Nicotinamide mononucleotide
278	Protease type XXIII from <i>Aspergillus oryzae</i>	3	b-Amylase, sweet potato
279	Pyroglutamate aminopeptidase from calf liver	33	b-Chymotrypsin
280	Pyrophosphatase nucleotide type II	91	b-Glucosidase type I
281	Pyrophosphatase nucleotide type III	92	b-Glucosidase type II
359	Renin substrate tetradecapeptide	96	b-Glucuronidase from abalone entrails
282	Rennet type I	93	b-Glucuronidase from bacteria type VII
283	Rennet type II	95	b-Glucuronidase from bacteria type X
284	Rennin	104	b-Glucuronidase type B-10
285	Rennin, from calf stomach	103	b-Glucuronidase type B-3
469	S-Palmitoyl coenzyme A	102	b-Glucuronidase type B-i
360	Sigma 104(R) phosphatase substrate	97	b-Glucuronidase type H-1 from helix pomatia
361	Starch azure	99	b-Glucuronidase type H-5 from helix pomatia
476	Stearoyl coenzyme A	94	b-Glucuronidase type IX
477	Succinylcoenzyme A, Na salt	100	b-Glucuronidase type L-ii from limpets
479	Thionicotinamide adenine dinucleotide	101	b-Glucuronidase type S-I from scallops
480	Thionicotinamide adenine dinucleotide phosphate	98	b-Glucuronidase type ha-4 from helix aspersa
288	Thrombin from horse plasma	331	b-Glycerophosphate, Ca salt
289	Thrombin from human plasma	328	b-Glycerophosphate, disodium salt
362	Thymolphthalein monophosphate, 2-amino-2-methyl-1,3-propanediol salt	329	b-Glycerophosphate, disodium salt .5H <sub>2</sub> O
366	Thymolphthalein monophosphate, Mg salt	159	b-Hydroxyacyl coa dehydrogenase type V from bovine liver
363	Thymolphthalein monophosphate, ammonium salt	160	b-Hydroxybutyrate dehydrogenase type IV
364	Thymolphthalein monophosphate, disodium salt	165	b-Hydroxysteroid dehydrogenase from <i>Pseudomonas testosteroni</i>
365	Thymolphthalein monophosphate, disodium salt	417	b-Methylcrotonyl coenzyme A, Li salt
478	Tiglyl coenzyme A, Li salt	337	b-Naphthyl acid phosphate, Na salt
290	Transketolase type X	339	b-Naphthyl phosphate, disodium salt
291	Triosephosphate isomerase type X from rabbit muscle	431	b-Nicotinamide adenine dinucleotide
292	Uridine-5'-diphosphogalactose 4-epimerase	434	b-Nicotinamide adenine dinucleotide
330	a + b-Glycerophosphate, disodium salt .5H <sub>2</sub> O	435	b-Nicotinamide adenine dinucleotide
2	a-Amylase type XI-A bacterial	424	b-Nicotinamide adenine dinucleotide 2':3'-cyclic monophosphate
30	a-Chymotrypsin type I-S from bovine pancreas	426	b-Nicotinamide adenine dinucleotide 3'-phosphate, Na salt
31	a-Chymotrypsin type II	427	b-Nicotinamide adenine dinucleotide 3'-phosphate, reduced, Na salt

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433	b-Nicotinamide adenine dinucleotide from yeast	436	b-Nicotinamide adenine dinucleotide, Na salt
430	b-Nicotinamide adenine dinucleotide from yeast	438	b-Nicotinamide adenine dinucleotide, reduced, dipotassium salt
443	b-Nicotinamide adenine dinucleotide phosphate	437	b-Nicotinamide adenine dinucleotide, reduced, disodium salt
444	b-Nicotinamide adenine dinucleotide phosphate, K salt	440	b-Nicotinamide adenine dinucleotide, reduced, disodium salt
442	b-Nicotinamide adenine dinucleotide phosphate, Na salt	439	b-Nicotinamide adenine dinucleotide, reduced, tris salt
441	b-Nicotinamide adenine dinucleotide phosphate, Na salt	425	b-Nicotinamide adenine dinucleotide-dextran
446	b-Nicotinamide adenine dinucleotide phosphate, reduced, type I	460	b-Nicotinamide mononucleotide
451	b-Nicotinamide adenine dinucleotide phosphate, reduced, type III	461	b-Nicotinamide mononucleotide, reduced, Na salt
448	b-Nicotinamide adenine dinucleotide phosphate, reduced, type IV	35	d-Chymotrypsin
449	b-Nicotinamide adenine dinucleotide phosphate, reduced, type V	34	g-Chymotrypsin type II
450	b-Nicotinamide adenine dinucleotide phosphate, reduced, type VI	115	g-Glutamyltranspeptidase type I from bovine kidney
447	b-Nicotinamide adenine dinucleotide phosphate, reduced, type X	116	g-Glutamyltranspeptidase type II from bovine kidney
445	b-Nicotinamide adenine dinucleotide phosphate, tris salt	117	g-Glutamyltranspeptidase type IV from porcine kidney
432	b-Nicotinamide adenine dinucleotide, Li salt	342	p-Nitrophenyl phosphate, Mg salt
		340	p-Nitrophenyl phosphate, di(CHA) salt
		341	p-Nitrophenyl phosphate, di(tris) salt
		346	p-Nitrophenyl sulfate, K salt