



FT-Raman Forensic Library

Library Listing – 175 spectra

This library is designed to assist forensic scientists and investigators for fast and easy identification of common street drugs. It contains a collection of 175 common drugs and related compounds frequently encountered in forensic analysis.

The FT-Raman Forensic Library contains spectra of controlled substances, common contaminants, and “cutting” agents. The Raman technique provides a unique benefit in forensic science since sample analysis can be completed directly through plastic bags and glass containers.

To create the Aldrich FT-Raman Forensic Library, 175 compounds of interest were placed in glass containers and were excited with an Nd:YVO₄ laser (1064 nm) using laser powers between 100 mW, measured at the sample. A Thermo Scientific FT-Raman spectrometer (with a Ge detector) was used to collect the Raman spectra. The spectra were saved in Raman Shift format.

FT-Raman Forensic Library

<u>Index</u>	<u>Compound Name</u>	<u>Index</u>	<u>Compound Name</u>
116	1-phenylcyclohexamine HCl 464	21	barbituric acid 325
152	2,4,5 - trimethoxyamphetamine HCl 515	20	benzocaine 326
151	2,4,6 trimethoxyamphetamine HCl 516	19	benzoylecgonine tetrahydrate 327
150	3,4,5 trimethoxyamphetamine HCl (TMA) 517	18	benzphetamine.HCL 328
163	5,5 diphenylhydantoin 544	17	bromoazepam 330
113	5-(p-methylphenyl)-5-phenyl hydantion 472	32	butabarbital 332
114	5-methyl-5-phenylhydantion 471	31	butacaine 333
161	Acetaminophen	30	butalbital 334
1	Acetaminophen 301	29	butethal 335
124	D-propoxyphene HCl 478	28	butylvinyl 336
83	D2 Bromo LSD 408	27	caffeine 337
51	DL -2, -5 dimethoxyamphetamine.HCl 368	26	cannabidiol 338
50	DL 2,5 dimethoxy-4-ethylamphetamine.HCl 369	25	cannabinol 339
49	DL 2,5 dimethoxy-4-methylamphetamine 370	40	carbamazepine 340
122	DL-propranolol HCl 480	39	carbromal 341
74	Ibogaine HCl 400	146	carisoprodol 525
73	Ibuprofen 401	38	chlodiazepoxide 345
169	Iodine	34	chloromazine 349
88	Ketamine HCl 402	37	chloroprocaine 346
111	L-Norpseudoephedrine HCl 445	36	chloroquine phosphate 347
136	L-psuedoephedrine HCl 482	35	chlorothiazide 348
81	MDE HCl 412	33	cholesterol (5(6)-cholesten-3-ol) 350
91	Methadone HCl 420	48	cimetidine 351
159	N,N dimethylamphetamine 528	47	clonazepam 352
112	N-Normorphine HCl 444	46	cocaine.HCl 354
110	Nortriptyline HCl 446	45	codeine 355
109	PCP Morpholine Analog HCl (1-1-phenyl) cycloheyl morpholine HCl 450	44	cyclazocine 357
108	PCP N-ethyl Analog HCl (N-ethyl-1-phenylcyclohexylamine HCl) 451	14	d amphetamine sulphate 315
174	PET Ether	90	d methamphetamine 422
128	Phenylpropanolamine HCl 473	13	d,l amphetamine sulphate 316
129	TCP HCl 1-(1-2-thicnyl) cyclohexcylpiperidine HCl 498	15	d-amphetamine.hcl 314
144	TCP Morpholine Analog HCl [1-(1-2-thicnyl)cyclohexyl morpholine HCl]	43	demoxepam 358
143	TCP Pyrolidine Analog HCl 500	42	dextromethorphan 359
139	Theophylline 509	41	diacetylmorphine HCl 360
8	acetanilide 302	56	diallylbarbituric acid 361
7	acetylcodeine 304	55	diazepam 362
6	allylcyclopentenyl Barbituric acid 307	54	didrate 363
102	alpha methyl fentanyl HCl 427	53	diethylstilbestrol 365
5	alphaprodine 308	52	diethyltryptamine HCl 366
4	alphenal 309	64	dimethyltryptamine furate 371
3	alprazolam 310	63	diphenoxylate.HCl 372
2	aminoantipyridine (-4) 311	62	dipropyltryptamine.HCl 373
9	amitriptyline.HCl 312	61	disulfiram 374
16	amobarbital 313	162	doxylamine succinate 546
12	antipyridine 317	60	dyphylline 375
11	aprobarbital 319	57	ethinamate 380
10	aspartame "apm" 321	72	ethosuximide 381
24	atabrine 322	71	ethylmorphine HCl 382
23	atropine sulphate 323	70	etonitazene 383
22	barbital 324	69	fenfluramine HCl 384
		68	fentanylcitrate 386
		67	flurazepam dihydrochloride 389
		66	furosemide 390
		65	glutethimide 391
		80	halazepam 392
		79	haloperidol 393
		78	hexobarbital 395
		77	htdrocodone bitartrate 397
		76	hydromorphone 398

Thermo
SCIENTIFIC

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<u>Index</u>	<u>Compound Name</u>	<u>Index</u>	<u>Compound Name</u>
75	hydroxyamphetamine HBr 399	127	prazepam 475
165	iminostilbene 539	156	primidone 532
59	l-ecgonine HCl 376	125	procaine HCL 477
58	l-ephedrine 378	126	procaine amide HCl 476
86	levorphanol tartrate 404	155	prochlorperazine edyisylate 533
87	levoxypropoxphene napsylate 403	154	promazine HCl 534
85	lidocaine 405	153	promethazine HCl 535
84	lorazepam 407	123	propoxyphene Napsylate 479
164	loxapine succinate 541	157	propyl hexedrine HCl 531
82	lysergic acid diethylamide tartate LSD 410	121	propylamphetamine HCl 481
96	meperidine HCl 415	168	protriptyline 536
147	mephentermine sulphate 524	135	psilocybin 485
95	mephobarbital 416	134	quinine HCl 487
94	mepivacaine HCl 417	172	red meth in cap tube
93	meproamate 418	171	red phosphorus in DEA bottle
92	mescaline HCl 419	173	red street methamphetamine
89	methapyriline HCl 423	132	scopolamine HBr 490
104	methaqualone 424	145	secondary methadone metabolite HCl 526
103	methsuximide 426	133	sodium saccharin 489
101	methylphenidate HCl 431	131	strychnine 493
100	morphine monohydrate 435	130	talbutal 497
99	nalorphine 436	142	temazepam 501
98n	altrexone HCl 437	141	tetracaine 503
158	niacinamide/pyridoxine.HCl/Inositol 530	140	thebaine alkaloid 508
97	nitrazepam 440	138	thiamylal 511
107	pentazocine 454	137	triazolam 514
106	pentobarbital 455	167	trifluoperazine dihydrochloride 537
105	phenacetin 456	166	trifupromazine HCl 538
120	phenazocine HBr 457	160	trimipramine maleate 527
119	phendimetrazine HCl 459	149	tripelennamine HCl 518
117	phenobarbital 462	175	yellow (normal) color street
148	phentermine HCl 523		methamphetamine in glass tube
115	phenylephrine HCl 470	170	yellow meth in cap tube
118	phenylmetrazine HCl 461		