



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 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	20	benzocaine 326
152	2,4,5 - trimethoxyamphetamine HCl 515	19	benzoylecgonine tetrahydrate 327
151	2,4,6 trimethoxyamphetamine HCl 516	18	benzphetamine.HCL 328
150	3,4,5 trimethoxyamphetamine HCl (TMA) 517	17	bromoazepam 330
163	5,5 diphenylhydantoin 544	32	butabarbital 332
113	5-(p-methylphenyl)-5-phenyl hydantion 472	31	butacaine 333
114	5-methyl-5-phenylhydantion 471	30	butalbital 334
161	Acetaminophen	29	butethal 335
1	Acetaminophen 301	28	butylvinal 336
124	D-propoxyphene HCl 478	27	caffeine 337
83	D2 Bromo LSD 408	26	cannabidiol 338
51	DL -2, -5 dimethoxyamphetamine.HCl 368	25	cannabinol 339
50	DL 2,5 dimethoxy-4-ethylamphetamine.HCl 369	40	carbamazepine 340
49	DL 2,5 dimethoxy-4-methylamphetamine 370	39	carbromal 341
122	DL-propranolol HCl 480	146	carisoprodol 525
74	Ibogaine HCl 400	38	chlodiazepoxide 345
73	Ibuprofen 401	34	chloromazine 349
169	Iodine	37	chloroprocaine 346
88	Ketamine HCl 402	36	chloroquine phosphate 347
111	L-Norpseudoephedrine HCl 445	35	chlorothiazide 348
136	L-psuedoephedrine HCl 482	33	cholesterol (5(6)-cholesten-3-ol) 350
81	MDE HCl 412	48	cimetidine 351
91	Methadone HCl 420	47	clonazepam 352
159	N,N dimethylamphetamine 528	46	cocaine.HCl 354
112	N-Normorphine HCl 444	45	codeine 355
110	Nortriptyline HCl 446	44	cyclazocine 357
109	PCP Morpholine Analog HCl (1-1-phenyl) cycloheyl morpholine HCl 450	14	d amphetamine sulphate 315
108	PCP N-ethyl Analog HCl (N-ethyl-1-phenylcyclohexylamine HCl) 451	90	d methamphetamine 422
174	PET Ether	13	d,l amphetamine sulphate 316
128	Phenylpropanolamine HCl 473	15	d-amphetamine.hcl 314
129	TCP HCl 1-(1-2-thicnyl) cyclohexcylpiperidine HCl 498	43	demoxepam 358
144	TCP Morpholine Analog HCl [1-(1-2-thicynyl)cyclohexyl morpholine HCl]	42	dextromethorphan 359
143	TCP Pyrolidine Analog HCl 500	41	diacetylmorphine HCl 360
139	Theophylline 509	56	diallylbarbituric acid 361
8	acetanilide 302	55	diazepam 362
7	acetylcodeine 304	54	didrate 363
6	allyleycyclopentenyl Barbituric acid 307	53	diethylstilbestrol 365
102	alpha methyl fentanyl HCl 427	52	diethyltryptamine HCl 366
5	alphaprodine 308	64	dimethyltryptamine furate 371
4	alphenal 309	63	diphenoxylate.HCl 372
3	alprazolam 310	62	dipropyltryptamine.HCl 373
2	aminoantipyridine (-4) 311	61	disulfiram 374
9	amitriptyline.HCl 312	162	doxylamine succinate 546
16	amobarbital 313	60	dyphylline 375
12	antipyridine 317	57	ethinamate 380
11	aprobarbital 319	72	ethosuximide 381
10	aspartame "apm" 321	71	ethylmorphine HCl 382
24	atabrine 322	70	etonitazene 383
23	atropine sulphate 323	69	fenfluramine HCl 384
22	barbital 324	68	fentanylcitrate 386
21	barbituric acid 325	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
		75	hydroxyamphetamine HBr 399
		165	iminostilbene 539

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