

Microgram

Bulletin

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DECEMBER 2005

- INTELLIGENCE ALERT -

“NIRVANA” CHOCOLATE BAR MIMICS (CONTAINING PSILOLOCIN) IN THE COLONY, TEXAS

The Texas Department of Public Safety Crime Laboratory (Garland, Texas) recently received 22½ “Nirvana” brand chocolate bar mimics suspected to contain psilocybin mushrooms (see Photos 1 and 2). The bars were seized from a local residence by the The Colony Police Department (The Colony is located north of the Dallas/Ft. Worth metropolitan area). The exhibits appeared to be commercially packaged, with the chocolate bars wrapped in either gold foil or gold foil paper, and overwrapped with professionally appearing printed labels that



Photo 1



Photo 2

included standard nutritional information and bar-coding. However, the labels did not match actual “Nirvana” brand confections (see: www.NirvanaChocolates.com), and the labeling also included comments that the bars contained “a touch of magic”. Upon visual inspection, the chocolate clearly contained plant material (see Photo 3). Analysis of the exhibits (total net mass 1,450 grams) by TLC and GC/MS confirmed psilocin (not quantitated). This was the fourth and largest ever submission of psilocybin mushroom chocolate concoctions to the Garland Laboratory, and the first to be packaged as mimics of a commercial product.



Photo 3

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- INTELLIGENCE ALERT -

HEROIN IN FABRIC TUBES WITHIN BASEBALL CAPS IN NEW JERSEY

The DEA Northeast Laboratory (New York, New York) recently received 12 baseball cap type hats with various logos, each with two long, flat, fabric tubes sewn around their inside perimeters that contained a beige powder, suspected heroin (see Photos 4 and 5). The hats were seized in northern New Jersey by local Task Force Officers, and were submitted through the DEA Newark Field Division (exact locale and circumstances not available). Analysis of the powder (total net mass 40.8 grams) by microscopy, FTIR, GC/FID, and GC/MS confirmed 91 percent heroin hydrochloride. The Northeast Laboratory commonly receives various articles of clothing containing heroin, but this was the first encounter with this particular smuggling technique. The original source (country of origin) of the hats was not reported.



Photo 4



Photo 5

- INTELLIGENCE ALERT -

**PRESUMED *TRICHOCEREUS PERUVIANUS* CACTUS (CONTAINING MESCALINE)
IN SAN DIEGO COUNTY, CALIFORNIA**



Photo 6

The DEA Southwest Laboratory (Vista, California) recently received a tall jar containing three different exhibits of unknown plant materials, suspected to contain controlled substances (see Photo 6). The first exhibit consisted of black dried plant material (total net mass 33.8 grams) in a plastic bag that was labelled as “Trichocereus Peruvianus, dry green flesh” (*Trichocereus peruvianus* is described on the Internet as a mescaline-containing cactus). The second exhibit consisted of loose, large green chunks of dried plant material (total net mass 160.9 grams) in a glass jar, and the third consisted of a yellowish powder (total net mass 27.1 grams) in a plastic bag. The exhibits were seized in conjunction with an indoor marijuana grow in San Diego County. A 3 gram sample of each exhibit was submitted to standard acid/base workup; analyses of the resulting extracts by GC and GC/MS confirmed mescaline in the green chunks and in the yellowish powder, and identified trace mesacaline in the black dried material labelled as “dry green flesh” (quantitations not performed). The actual identities of the plant materials were not confirmed. These are the first submissions of this type to the Southwest Laboratory.

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- INTELLIGENCE ALERT -

MIXED COCAINE AND COCAINE MIMIC PACKAGES IN LAREDO, TEXAS

The DEA South Central Laboratory (Dallas, Texas) recently received 11 samples of white powder, suspected cocaine. The samples were selected from a total of 48 brick-sized bundles, that had been seized by Customs and Border Protection personnel in Laredo, Texas from the

rear tires of a vehicle crossing the border from Mexico. The bundles were wrapped in carbon paper, grease, and cellophane, and came in two distinct sizes (see Photo 7), with the smaller packages being about half the thickness of the larger packages, but all weighing about 1 kilogram each. Preliminary screening indicated that only the larger bundles contained cocaine, and so the entire seizure was submitted for analysis. Analysis of the material in 32 larger bundles (total net mass 32.13 kilograms) by IR/ATR, GC/FID, and GC/MS confirmed 81 percent cocaine hydrochloride. Analysis of the material in 15 smaller bundles (total net mass 15.37 kilograms) by IR/ATR and GC/MS indicated no controlled substance (the material was tentatively identified as calcium sulfate). [The results of analysis for the 48th bundle was not reported.] While large seizures of cocaine HCl bricks are not uncommon, this submission was unusual in that it contained cocaine brick mimics.



Photo 7

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- INTELLIGENCE ALERT -

RECTANGULAR HEROIN PELLETS IN MIAMI, FLORIDA

The DEA Southeast Laboratory (Miami, Florida) recently received 140 unusual rectangular, plastic and latex-wrapped pellets containing a compressed, off white powder, suspected heroin (see Photo 8). The exhibits were seized by U.S. Customs and Border Patrol personnel from within a wooden crate that had arrived from Medellin, Colombia. Analysis of the powder (total net mass 2,990 grams) by GC/MS and FTIR confirmed 93 percent heroin hydrochloride. This is believed to be the first submission of rectangular pellets to the Southeast Laboratory. Because the pellets had been removed from the crate before submission to the laboratory, it is unknown whether the pellets were rectangular as a result of being forced into an enclosed space, or were prepared in that shape for some other reason.



Photo 8

- INTELLIGENCE BRIEF -

SALVIA DIVINORUM IN MORAGA, CALIFORNIA

The Contra Costa County Sheriff's Crime Laboratory (Martinez, California) recently received one bag of seeds and two bags of green plant material, the latter both submitted as suspected marijuana (however, one of the bags was labeled "Salvia Divinorum 10x") (photos not available). The exhibits were seized in Moraga (Contra Costa County) by the Moraga Police Department, pursuant to a burglary investigation. It was determined that the plant material in the bag labeled as "Salvia Divinorum 10x" (total net mass less than three grams) was not marijuana. Analysis of a methanolic extract of a sample of the material by GC/MS gave no data; however, analysis of a boiling chloroform extract by GC/MS presumptively identified Salvinorin A, the primary hallucinogen in *Salvia divinorum* (not quantitated). The second bag in this case was not labelled and was found to contain no controlled substances. The seeds in the third bag were not identified. This was the first submission of *Salvia divinorum* to the laboratory.

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- INTELLIGENCE BRIEF -

COCAINE CONTAINING DILTIAZEM IN DEER PARK, TEXAS

The Pasadena Police Department Regional Crime Laboratory (Pasadena, Texas) recently received two samples of cocaine hydrochloride from the Deer Park (Texas) Police Department that contained diltiazem (Pasadena and Deer Park are located just east of Houston). The samples were analyzed using GC/MS and FTIR analysis, and diltiazem was confirmed via comparison with a pharmaceutical standard.

[Editor's Note: For comprehensive analytical data for diltiazem, see: Peters DE. Diltiazem HCl: An analytical profile. *Microgram Journal* 2004;2(1-4):11.]

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SELECTED REFERENCES

[Selected references are a compilation of recent publications of presumed interest to forensic chemists. Unless otherwise stated, all listed citations are published in English. Listed mailing address information (which is sometimes cryptic or incomplete) exactly duplicates that provided by the abstracting services. Patents are reported only by their *Chemical Abstracts* citation number.]

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9. Jia J, Wang Y, Chen Z, Zhao Y, An J. **Determination of ketamine by TLCs**. Shanxi Yike Daxue Xuebao 2005;36(1):69. [Editor's Notes: A TLC-Scanning methodology method is presented for the separation and detection of ketamine, morphine, and heroin. Primary focus appears to be biological. This article is written in Chinese. Contact: School of Forensic Medicine, Shanxi Medical University, Taiyuan 030001, Peop. Rep. China.]
10. Kikura-Hanajiri R, Hayashi M, Saisho K, Goda Y. **Simultaneous determination of nineteen hallucinogenic tryptamines/beta-carbolines and phenethylamines using gas chromatography - mass spectrometry and liquid chromatography - electrospray ionisation - mass spectrometry**. Journal of Chromatography B - Analytical Technologies in the Biomedical and Life Sciences 2005;825(1):29. [Editor's Notes: 19 different compounds were determined

- in 123 products acquired in Japan. Contact: Natl. Inst. Hlth. Sci., Setagaya Ku, 1-18-1 Kamiyoga, Tokyo 1588501, Japan.]
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THE DEA FY - 2006 STATE AND LOCAL FORENSIC CHEMISTS SEMINAR SCHEDULE

The remaining FY - 2006 schedule for the DEA's State and Local Forensic Chemists Seminar is as follows:

February 6 - 10, 2006
May 8 - 12, 2006
July 10 - 14, 2006
September 11 - 15, 2006

Note that the school is open only to forensic chemists working for law enforcement agencies, and is intended for chemists who have completed their agency's internal training program and have also been working on the bench for at least one year. There is no tuition charge for this course. The course is held at the AmeriSuites Hotel in Sterling, Virginia (near the Washington/Dulles International Airport). A copy of the application form is reproduced on the last page of the August 2004 issue of *Microgram Bulletin*. Completed applications should be mailed to the Special Testing and Research Laboratory (Attention: Pam Smith or Jennifer Kerlavage) at: 22624 Dulles Summit Court, Dulles, VA 20166. For additional information, call 703/668-3337.

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Computer Corner

Computer Forensic Examination Workstations

#201

by Steve Carter, Group Supervisor
DEA Digital Evidence Laboratory

[Editor's Preface: This issue of "Computer Corner" marks the start of the third era of columnists. "Computer Corner" was initiated by Senior Forensic Chemist Chuck Harper at DEA's Special Testing and Research Laboratory. Chuck wrote the first 120 issues, focusing on basic aspects of computer operations - that is, the "nuts and bolts" of how computers work. In April of 1999, "Computer Corner" was picked up by Group Supervisor (later Laboratory Director) Mike Phelan, who changed the focus to (first) Computer Forensics and then to the broader field of Digital Evidence. Last month's issue was Mike's last - but not the end of "Computer Corner" or its current focus on Digital Evidence. "Computer Corner" will now be written by the staff at DEA's Digital Evidence Laboratory.

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An examination workstation should contain the necessary items that will allow an examiner to perform a complete computer forensic examination. DEA provides workstations containing a comprehensive array of components (detailed below) to each computer forensic examiner. The current, estimated costs for these components are also detailed below.

Setup:

- Hard drive duplicator (to duplicate an exhibit's hard drive)
- Uninterruptible power supplies (to maintain power to the workstation if there is a power outage)
- Storage cabinet (to store media, tools, etc.)
- Monitors (to view what's coming from the forensic computer)
- SCSI/Promise card (to attach additional hard drives to a computer)
- Work copy hard drives (to contain the "images" of an exhibit)
- Tool kit (to open an exhibit in order to retrieve the hard drive)
- Laser printer (to make printouts of findings, etc.)
- Evidence security box (to store working copies, case files, or other small items that are case related)
- Evidence cart (to transport evidence from the evidence vault to the forensic workstation and back)
- Set of registered forensic software (to analyze exhibits)
- Set of miscellaneous cables, connectors (needed for extra connectivity)
- Sets of electrical power cords and surge protectors, power strips (to provide power or protection to the workstation)
- Office telephone (to communicate with the case agent, attorney(s), and others)
- Write blockers (to protect against changes being made to the original evidence)
- Forensic laptop for on-site acquisitions (to perform on-site backups)
- Workbenches (to hold the forensic workstation)
- Intranet terminal (to communicate with the case agent and others)

Costs:

	<u>Item</u>	<u>Unit Cost</u>	<u>Number of Units</u>	<u>Total Cost</u>
•	Hard drive duplicator	\$3,000	3	\$9,000
•	Uninterruptible power supply	\$600	3	\$1800
•	Storage cabinet	\$800	1	\$800
•	Monitors	\$600	2	\$1,200
•	SCSI/Promise Card	\$300	5	\$1,500
•	Work copy hard drives	\$300	20	\$6,000
•	Tool kit	\$300	1	\$300
•	Laser printer	\$700	1	\$700
•	Evidence Security box	\$500	1	\$500
•	Evidence cart	\$250	1	\$250
•	Registered software	\$4,000	1	\$4,000
•	Misc. cables, connectors	\$300	1	\$300
•	Power cords surge protector	\$150	3	\$450
•	Office phone	\$325	1	\$325
•	Write blockers	\$1,300	2	\$2,600
•	Forensic laptop	\$2,500	1	\$2,500
•	Workbench	\$3,000	2	\$6,000
•	Intranet Terminal	\$5,000	1	\$5,000

Includes:

- Software licenses
- Network cable drop
- Shared printer

Collective Total (per examiner): \$38,225

Questions or comments? E-mail: [Steven.L.Carter -at- usdoj.gov](mailto:Steven.L.Carter-usdoj.gov)

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2005 Subject Index (Alphabetical)	Volume	Number	Page
2,5-Dimethoxy-4-Ethylphenethylamine (2C-E) Capsules in Bettendorf, Iowa	XXXVIII	4	59
2C-C in LSD Blotter Acid Mimic in Washington County, Oregon	XXXVIII	11	163
4-Methylaminorex - Methamphetamine Lab in Ft. Lauderdale	XXXVIII	2	31
5-MeO-AMT in LSD Blotter Acid Mimic in Northern New Jersey	XXXVIII	6	94
5-MeO-AMT and DPT in St. Mary's County, Maryland	XXXVIII	5	71
5-MeO-MiPT in Ecstasy Mimic Tablets in Washington, DC	XXXVIII	3	46
Anabolic Steroid Control Act of 2004 (Info)	XXXVIII	5	78
ASCLD/LAB-International Accreditation - What's New? (Computer Corner #194)	XXXVIII	5	90
Cactus (Presumed Trichocereus Peruvianus) Containing Mescaline in San Diego County, CA	XXXVIII	12	179
Canine Search during a Traffic Stop is not a 4th Amendment Search (Selected Intelligence Brief)	XXXVIII	5	81
Carisoprodol - Request for Information	XXXVIII	8	127
Cocaine, Smuggled in a Book Lining in Huelva Province, Spain	XXXVIII	7	109
Cocaine, Smuggled in Chess Table Stands	XXXVIII	10	150
Cocaine, Smuggled in a Water-Soluble Matrix in Villavicencio, Colombia (South America)	XXXVIII	9	137
Cocaine, Smuggled in a Granola Box in El Paso, Texas	XXXVIII	6	95
Cocaine, Smuggled in Two-Layer Metal Pots at Miami International Airport	XXXVIII	8	123
Cocaine, Smuggled in Inca Plaques	XXXVIII	2	29
Cocaine "Cylinders" in Shelbyville, Kentucky	XXXVIII	11	163
Cocaine, Bricks with a "Melted" Appearance, in Los Angeles	XXXVIII	2	28
Cocaine, Containing Diltiazem, on the West Coast	XXXVIII	1	2
Cocaine - Cocaine Base Laced into Cigarettes in Blaine, Washington	XXXVIII	9	135
Cocaine, Smuggled Inside Wooden Dowels in New York	XXXVIII	8	122
Cocaine, Smuggled in a Horse Saddle in Tampa, Florida	XXXVIII	6	96
Cocaine and Cocaine Mimic Bricks in Laredo, Texas	XXXVIII	12	179
Cocaine, Smuggled in Weightlifting Bench Cushions at O'Hare International Airport, Chicago	XXXVIII	11	164
Cocaine, Smuggled in a Canned Milk Can in Huelva, Spain	XXXVIII	3	48
Cocaine Containing Diltiazem in Deer Park, Texas	XXXVIII	12	181
Cocaine, Bricks Containing Internal Heroin Bricks in Nogales, Arizona	XXXVIII	4	55
Cocaine, Smuggled in Spools of Thread at Newark International Airport	XXXVIII	4	56
Computer Corner #193 (Search Warrant Language)	XXXVIII	4	67
Computer Forensic Jargon to Avoid (Computer Corner #199)	XXXVIII	10	159
Computer Corner #200 (New Examiner Interview Topics)	XXXVIII	11	174
Computer Corner #199 (Computer Forensic Jargon to Avoid)	XXXVIII	10	159

Computer Corner #190 (Digital Evidence Worksheet Design)	XXXVIII	1	12
Computer Corner #198 (Digital Evidence Courtroom Vocabulary)	XXXVIII	9	143
Computer Corner #197 (Digital Laboratory Efficiency Strategies)	XXXVIII	8	131
Computer Corner #196 (Exhibit Differentiation - Digital Evidence Considerations)	XXXVIII	7	119
Computer Corner #195 (On-Site Backup Protocols - New Challenges)	XXXVIII	6	107
Computer Corner #191 (Digital Evidence Inventory Theory)	XXXVIII	2	43
Computer Corner #194 (ASCLD/LAB-International Accreditation - What's New?)	XXXVIII	5	90
Computer Corner #192 (Thoughts for the Future)	XXXVIII	3	52
Computer Corner #201 (Examination Workstations)	XXXVIII	12	186
Dextromethorphan in MDMA Tablet Mimics in Colombia, Missouri	XXXVIII	10	148
Digital Evidence Courtroom Vocabulary (Computer Corner #198)	XXXVIII	9	143
Digital Evidence Worksheet Design (Computer Corner #190)	XXXVIII	1	12
Digital Evidence Inventory Theory (Computer Corner #191)	XXXVIII	2	43
Digital Laboratory Efficiency Strategies (Computer Corner #197)	XXXVIII	8	131
Dimethylamphetamine in "Ice" Appearing Form in Florence, Alabama	XXXVIII	2	33
DOB on LSD Blotter Acid Mimic in Burns, Oregon	XXXVIII	10	147
DPT and 5-MeO-AMT in St. Mary's County, Maryland	XXXVIII	5	71
Examination Workstations (Computer Corner #201)	XXXVIII	12	186
Exhibit Differentiation - Digital Evidence Considerations (Computer Corner #196)	XXXVIII	7	119
Hashish, Compressed and Vacuum-Packed in Laurier, Washington	XXXVIII	3	47
Hashish Laboratory in Santa Cruz, California	XXXVIII	5	75
Heroin, Black Tar, in Cicero, Illinois	XXXVIII	5	76
Heroin, Smuggled in Tapestry and Place Setting Mats	XXXVIII	10	151
Heroin, Black Tar, Seized in Craig County, Oklahoma	XXXVIII	4	60
Heroin - Unusual Rectangular Shaped Pellets in Miami	XXXVIII	12	180
Heroin, Saturated in Paper in a Suitcase Lining, in Cameron County, Texas	XXXVIII	6	93
Heroin, Smuggled in Hollowed Out Wooden Slats	XXXVIII	2	27
Heroin, Smuggled in Fabric Tubes Sewn Inside Baseball Caps in New Jersey	XXXVIII	12	178
Heroin Adulterated with Diltiazem in New Britain, Connecticut	XXXVIII	11	166
Heroin Mill Seized in New York	XXXVIII	10	152
Heroin - Large Seizure to the DEA Mid-Atlantic Laboratory	XXXVIII	11	169
Heroin "Fingers" in Montpelier, Vermont	XXXVIII	11	162
Heroin Cut with Dimethyl Sulfone in Chicago	XXXVIII	11	166
Heroin, Pellets Enclosed in Plastic Syringes, at Miami International Airport	XXXVIII	4	57
Heroin, Smuggled in Chess Pieces in New York	XXXVIII	10	151

Heroin, Smuggled in Tote-Bag Handles in Miami, Florida	XXXVIII	7	111
Heroin, Smuggled in Quilted Unisex Garments at Washington/Dulles International Airport	XXXVIII	7	112
Heroin, Mini-Bricks Inside Cocaine Bricks in Nogales, Arizona	XXXVIII	4	55
Internet Sales of Prescription Drugs, Legislation	XXXVIII	4	61
Khat, Fresh and Dried ("Graba") in Phoenix	XXXVIII	3	45
Khat, Dried ("Graba") in Baltimore	XXXVIII	1	1
Kratom (Selected Intelligence Brief)	XXXVIII	7	114
LSD Blotter Acid Mimic Containing 5-MeO-AMT in Northern New Jersey	XXXVIII	6	94
LSD Blotter Acid Mimic Containing 2C-C in Washington County, Oregon	XXXVIII	11	163
LSD Blotter Acid Mimic Containing DOB in Burns, Oregon	XXXVIII	10	147
Marijuana Plantation Seized on BLM Property Near Cedaredge, Colorado	XXXVIII	10	154
Marijuana Plantation Eradicated in the Shasta-Trinity National Forest (California)	XXXVIII	8	126
Marijuana, Very Large Plantation in Merced County, California	XXXVIII	1	4
Marijuana in Hazardous Packaging in Chicago	XXXVIII	11	161
Marijuana and Currency Transported in Horse Trailers in Kansas and Missouri	XXXVIII	6	100
Marijuana, Large Seizure at an Industrial Storage Yard in Houston, Texas	XXXVIII	6	97
Marijuana and THC-Laced Consumer Products in San Lorenzo, California	XXXVIII	11	165
Marijuana, Smuggled in a Simulated FedEx Van	XXXVIII	4	58
Marijuana, Smuggled in Caskets in Oklahoma	XXXVIII	2	30
Marijuana Bricks, Smuggled in Ceramic "Sun Face" Statues, in Prince George's County, MD	XXXVIII	5	74
Marrubium Vulgare (White Horehound) Submitted as Suspected Marijuana in San Francisco	XXXVIII	7	110
MDMA - Large Seizure of Tablets in Canadian County, Oklahoma	XXXVIII	11	168
MDMA - Lab Operators Using Ocotea Cymbarum as a Precursor	XXXVIII	11	166
MDMA Tablet Mimics Containing Dextromethorphan in Colombia, Missouri	XXXVIII	10	148
MDMA Lab in Blacksburg, Virginia	XXXVIII	5	76
MDMA Tablet Mimics Containing MDA, Caffeine, and Fentanyl in Orange and Anaheim, CA	XXXVIII	10	149
MDMA Tablets Containing Trace Cocaine and DL-Methamphetamine in El Paso, Texas	XXXVIII	10	150
MDMA Tablets, Large Seizure in Salem, Oregon	XXXVIII	5	77
MDMA, Diazepam, and Psilocin Capsules in Bellingham, Washington	XXXVIII	5	73
MDMA - Maryland Physician Convicted for Conspiracy to Manufacture	XXXVIII	6	99
MDMA - Ecstasy Mimic Tablets Containing 5-MeO-MIPT in Washington, DC	XXXVIII	3	46
MDMA Capsules in Volusia County, Florida	XXXVIII	4	59
MDMA - Large Lab Seized in South Bend	XXXVIII	11	167
Methamphetamine - "Liquid Methamphetamine" Smuggled in a Vehicle's Fluid Reservoirs	XXXVIII	8	121
Methamphetamine, Smuggled in Plastic and Tape Boxes in Laredo, Texas	XXXVIII	4	57

Methamphetamine in a Large Model Rocket (Rigged to Launch from a Car Trunk) in Missouri	XXXVIII	10	153
Methamphetamine - Concealment in "Doggie Boxes" in Florida	XXXVIII	6	101
Methamphetamine Myths (Selected Intelligence Brief)	XXXVIII	2	34
Methamphetamine - "Super Lab" Seized in Smyrna, Georgia	XXXVIII	4	60
Methamphetamine - "Ice" Seizure in Beckham County, Oklahoma	XXXVIII	2	32
Methamphetamine Labs in Bel Air, Maryland and Collinsville, Pennsylvania	XXXVIII	9	138
Methamphetamine - 4-Methylaminorex Lab in Ft. Lauderdale	XXXVIII	2	31
Methamphetamine, Large Lab in Bay County, Florida	XXXVIII	1	7
Methamphetamine - Crystal Meth Lab Seizures Increase Fivefold in Hawaii	XXXVIII	1	6
Methamphetamine "Super Lab" Seized Near Brownsville, Oregon	XXXVIII	7	113
New Examiner Interview Topics (Computer Corner #200)	XXXVIII	11	174
On-Site Backup Protocols - New Challenges (Computer Corner #195)	XXXVIII	6	107
Opium - Large Opium Plantation in Herington, Kansas	XXXVIII	9	136
Opium, Formed in "Chocolate Candy" Mimics, in Los Angeles International Airport	XXXVIII	6	95
Opium in Detroit	XXXVIII	3	47
Oxycodone - Liquid Oxycodone in Dorchester County, South Carolina	XXXVIII	10	148
Peyote (Possible) in Wadsworth, Illinois	XXXVIII	5	73
Phencyclidine, Large Seizure in Orange County, California	XXXVIII	8	124
Pseudoephedrine, Oklahoma Legislation	XXXVIII	8	125
Pseudoephedrine, Conversion to Methamphetamine, Laboratory Study	XXXVIII	6	102
Pseudoephedrine Containing Cold Medications Used to Produce Methamphetamine	XXXVIII	6	96
Pseudoephedrine Tablets, 35 Million Seized at Long Beach, California	XXXVIII	1	5
Pseudoephedrine - Controls Implemented in Illinois	XXXVIII	2	34
Pseudoephedrine, Packaged as a Controlled Substance (Field-Tested Positive for Cocaine)	XXXVIII	8	123
Pseudoephedrine - "Road Trip" to Purchase OTC Medications	XXXVIII	6	98
Psilocybin Mushroom Spores in Detroit	XXXVIII	1	3
Psilocybin Mushroom/Chocolate Concoctions in The Colony, Texas	XXXVIII	12	177
Psilocybin Mushrooms Laced with THC in Perris, California	XXXVIII	9	138
Salvia Divinorum in Moraga, California	XXXVIII	12	181
Search Warrant Language (Computer Corner #193)	XXXVIII	4	67
Thai Tabs Containing Cannabinol and Caffeine in Bangkok, Thailand	XXXVIII	5	74
Thoughts for the Future (Computer Corner #192)	XXXVIII	3	52
Trucks Resembling New Mexico DOT Vehicles, Used to Smuggle Marijuana	XXXVIII	2	30

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