

TICTAC[®]

Visual Drug Identification

A comprehensive database for the identification of
drugs

Produced by TICTAC Communications at
St. George's University of London Medical School

TICTAC

TICTAC collects and analyses legal & illegal drugs to compile a database for the visual identification of solid dose drugs



What is TICTAC?

A comprehensive and trusted software & database system for:

1. The instant visual identification of solid dose drugs.
2. Information, reference and training material on drugs and drugs abuse.
3. Insight into new and emerging drugs

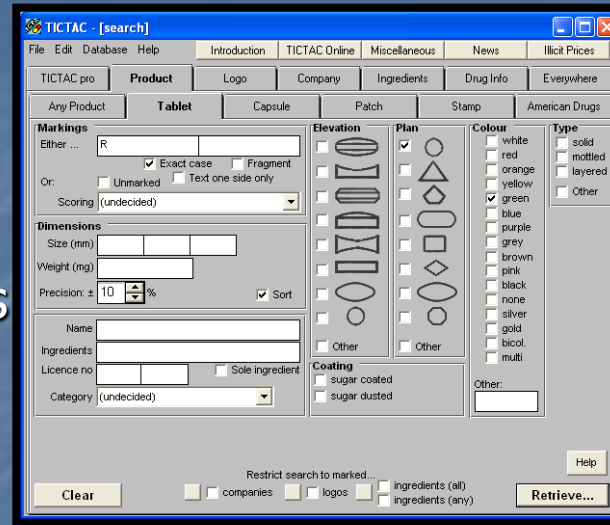
Which forces/labs use TICTAC ?

- ❖ Avon & Somerset *
- ❖ Bedfordshire*
- ❖ Cambridgeshire *
- ❖ Cheshire
- ❖ City Of London *
- ❖ Cleveland*
- ❖ Derbyshire
- ❖ Devon & Cornwall *
- ❖ Dorset *
- ❖ Essex
- ❖ Europol
- ❖ Garda
- ❖ Gloucester*
- ❖ Grampian
- ❖ Greater Manchester
- ❖ Gwent *
- ❖ Guernsey Police
- ❖ Hampshire *
- ❖ Hertfordshire
- ❖ Home Office
- ❖ Kent*
- ❖ Lancashire
- ❖ Leicestershire
- ❖ Lothian & Borders
- ❖ Norfolk *
- ❖ North Wales*
- ❖ Metropolitan Police
- ❖ Nottinghamshire*
- ❖ Royal Navy (Provost Marshal)
- ❖ SCDEA
- ❖ SOCA
- ❖ South Wales
- ❖ Strathclyde
- ❖ Suffolk *
- ❖ Surrey *
- ❖ Sussex *
- ❖ Staffordshire
- ❖ Tayside
- ❖ Thames Valley *
- ❖ West Mercia*
- ❖ West Yorkshire
- ❖ Environments Scientifics Group
- ❖ Forensic Science Service NI
- ❖ Guernsey Public Analysts
- ❖ Guernsey Customs & Immigration
- ❖ Key Forensic Services
- ❖ LGC Forensics
- ❖ Mass Spec Analytical
- ❖ Reading Scientifics

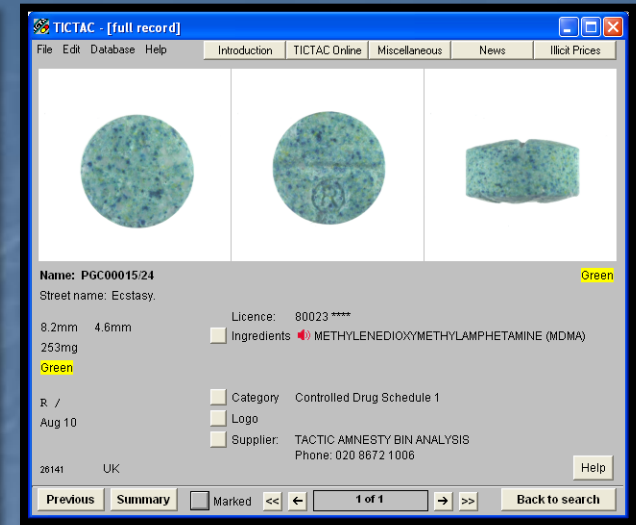
Three Versions that compliment each other

TICTAC Pro

- Original version
- Will run on single computers or networks
- Requires training



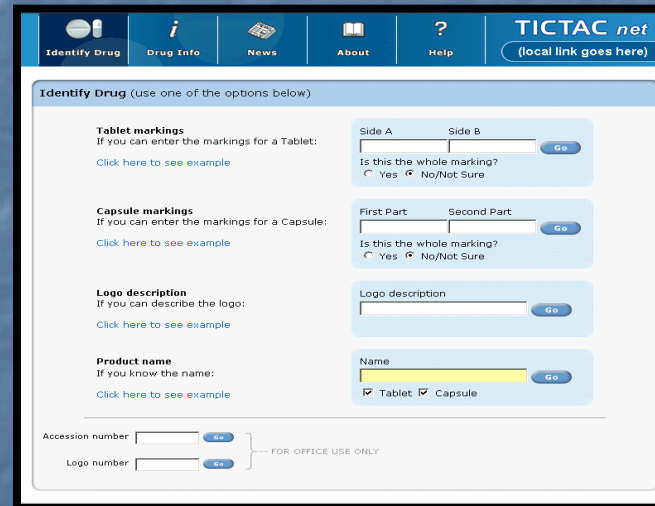
The screenshot shows the TICTAC Pro search interface. It features a menu bar with 'File', 'Edit', 'Database', and 'Help'. Below the menu is a 'TICTAC pro' header with tabs for 'Product', 'Logo', 'Company', 'Ingredients', 'Drug Info', and 'Everywhere'. The main area is divided into several sections: 'Markings' (with fields for 'Ether...' and 'Or:'), 'Elevation' (with various shape icons), 'Plan' (with various shape icons), 'Colour' (with a list of colors), and 'Dimensions' (with fields for 'Size (mm)', 'Weight (mg)', and 'Precision'). There are also fields for 'Name', 'Ingredients', 'Licence no', and 'Category'. A 'Retrieve...' button is at the bottom right.



The screenshot shows the TICTAC Pro full record interface. It features a menu bar with 'File', 'Edit', 'Database', and 'Help'. Below the menu is a 'TICTAC : [full record]' header. The main area is divided into two sections: 'Image' (with three circular images of a tablet) and 'Details' (with fields for 'Name: PGC00015/24', 'Street name: Ecstasy', 'Licence: 80023 ****', 'Ingredients: METHYLENEDIOXYMETHYLAMPHETAMINE (MDMA)', '253mg', 'Green', 'R / Aug 10', 'Category: Controlled Drug Schedule 1', 'Logo', 'Supplier: TACTIC AMNESTY BIN ANALYSIS', 'Phone: 020 8672 1006', and '26141 UK'). A 'Help' button is at the bottom right.

TICTAC Net

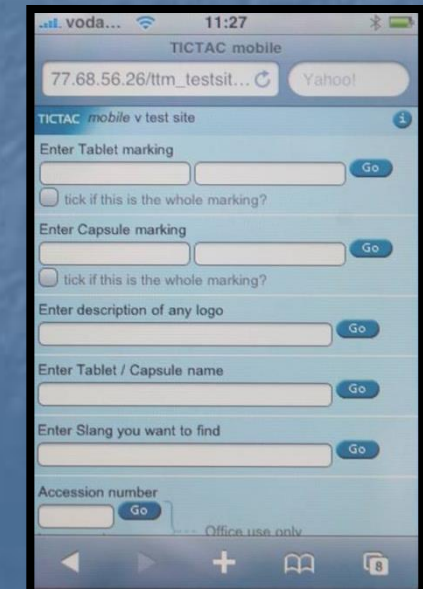
- Runs on Force Intranets
- Simplified interface
- Force-wide access
- Requires No training



The screenshot shows the TICTAC Net Identify Drug interface. It features a navigation bar with 'Identify Drug', 'Drug Info', 'News', 'About', and 'Help'. The main area is divided into four sections: 'Tablet markings', 'Capsule markings', 'Logo description', and 'Product name'. Each section has a 'Go' button. There are also fields for 'Accession number' and 'Logo number' with 'Go' buttons. A 'FOR OFFICE USE ONLY' label is at the bottom right.

TICTAC Mobile

- For mobile/Smart phones
- Similar to TICTAC net



The screenshot shows the TICTAC Mobile interface. It features a navigation bar with 'TICTAC mobile' and a search bar. The main area is divided into several sections: 'Enter Tablet marking', 'Enter Capsule marking', 'Enter description of any logo', 'Enter Tablet / Capsule name', 'Enter Slang you want to find', and 'Accession number'. Each section has a 'Go' button. There are also fields for 'Accession number' and 'Logo number' with 'Go' buttons. A 'FOR OFFICE USE ONLY' label is at the bottom right.

Who uses TICTAC?

Law & Order

- UK Police (civil, military)
- Police overseas
- Home Office
- Prisons
- Customs
- Forensic laboratories

Industry

- Pharmaceutical Industry
 - New product development
 - Market intelligence
 - Rogue tablets
- Food Industry

Health

- Drug treatment & support organisations
- Medicines & Healthcare Products Regulatory Agency (MHRA)
- Healthcare Protection Agency (HPA)
- Community pharmacies
- Primary Care Trusts (PCT)
- Nursing/care homes
- Hospitals & pharmacies
 - Patient admissions
 - Mixed batches of tablets
 - Generic prescribing
 - Foreign visitors
 - Treatment of overdoses

Education

- University schools of forensic science
- University schools of pharmacy

What TICTAC provides

- Immediate visual identification of tablets & capsules
- Determine the legal status of drugs
- Establish what a drug is used for
- Drug test cross reactivity
- Education, Reference and News on drugs and drug abuse
- Index of drug slang

Benefits for the Police

- Instant results – saves Police time
- Avoid costly laboratory submission of non-controlled drugs
- Rapid confidential answers to drug ID enquiries
- Education & training
- Pace 2 compliancy in custody
- Supports specialist users

TICTAC SAVES MONEY & SAVES TIME

TICTAC users

Example of uses within forces

- Control Rooms
- Drug Liaison Officers
- Custody Suites
- Patrol & ACU Officers
- Drug Education / Expert Witness
- Drug Squads / Serious Crime
- Scientific Support
- Property Stores
- Chemist Inspection
- Community Policing
- Scene of Crime Officers
- Traffic (multi-agency vehicle searches)

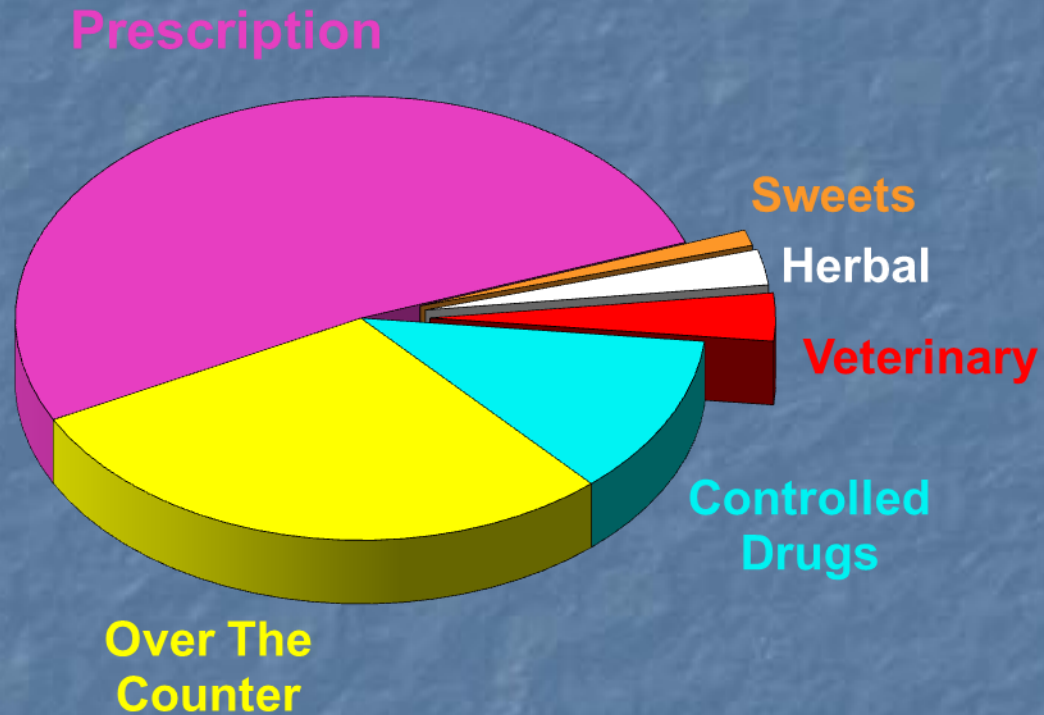
Products collected

- Prescription only products
- Over the counter products
- Licensed parallel imports
- Health and herbal
- Veterinary products
- Homeopathic medicines
- Illicit tablets & capsules
- Transdermal patches
- Stamps (mostly LSD)
- Confectionery
- Anything that resembles a tablet or capsule

TICTAC database

Products (tablets & capsules etc.)	30,000
Drugs (active ingredient)	3,823
Suppliers	1,120
Pictures	77,000+

Products by status





POM antiangina – prevent heart attacks



POM - diabetes



POM – epilepsy



POM antihypertensive - treat high blood pressure, prevent heart attacks



POM – antipsychotic – treat psychoses and other mental illnesses



MDMA MDMA Amphet. MDMA 2C-B Amphet. -----Confectionary-----

Where does the data come from?

- TICTAC subscribers
- Pharmaceutical Industry
- Manufacturers
 - Confectionary
 - Health & Herbal
- Medicines & Healthcare products Regulatory Agency
 - Parallel imports
- Forensic Laboratories
- Police
- Customs
- Prisons
- Test purchases
- Amnesty bin analysis

Amnesty bin analysis

Innovative data collection methods for illicit drugs

- Drugs deposited in bin as the result of a search as condition of entry to club or music festival
- Bin emptied in the presence of a Police officer
- Contents documented and sealed in evidence bag
- Bag collected from Police station
- Transported to laboratory in evidence bag
- Analysed
- Results disseminated using TICTAC
- Home Office Licensed



Amnesty bins



<http://www.arengineering.co.uk/drugcabinets.html> , cost £103 +VAT

Drugs & Clubs



Drugs and Festivals



Amnesty bin contents - clubs



Small club



Large club

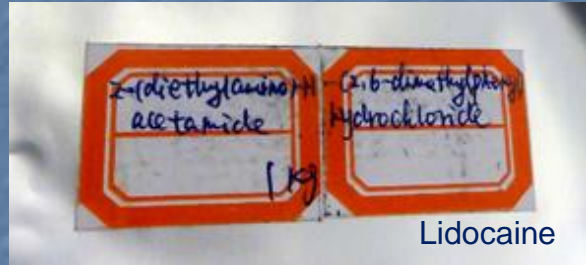


Cannabis

Amnesty bins - festivals



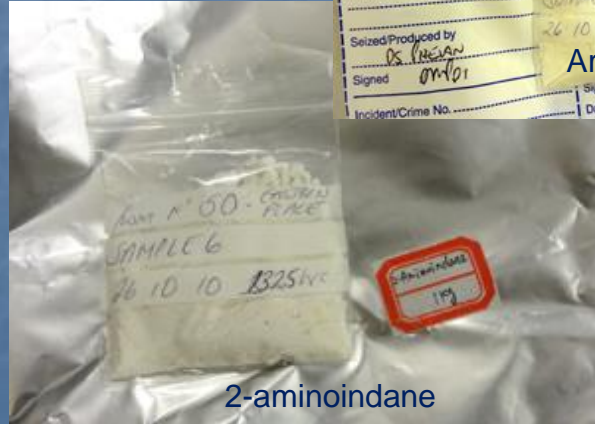
Impounded drugs



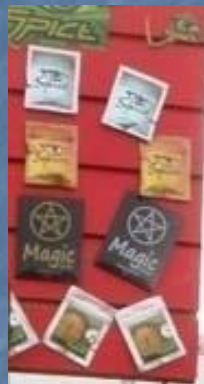
Property Ref. No.	Date	Name/Rank No. (Block Letters)	Sig
Description	Clear bags labelled Arecoline containing white powder	26/10/10	
Time/Date Seized/Produced	1800 15/10/10	Signed	
Where Seized/Produced	As. Dist/181010/1825	Name/Rank No. (Block Letters)	
Seized/Produced by	As. (N/A)	Signed	
Signed	07/10/1	Date	
Incident/Crime No.			

Sample 22
26/10/10 1800

Arecoline



Test purchasing



Test Purchases from websites

AmHiCo



Red Eye Frog



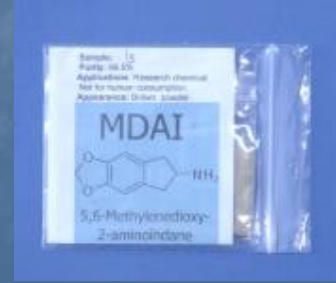
Everyone Does It



Biorepublik



Salviadee



“Research chemicals” - not for human consumption

What we find: Piperazines



BZP + TFMPP



CPP



CCP



BZP + TFMPP + caffeine



CPP



BZP + caffeine



BZP



BZP + TFMPP

Ecstasy (MDMA)



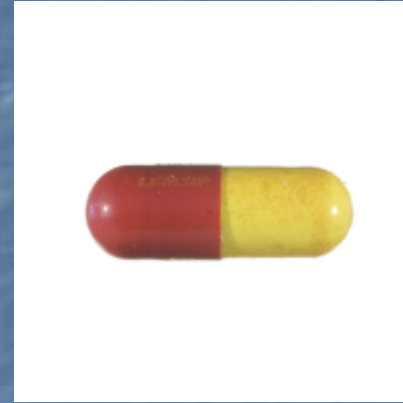
No marking



Trade mark
symbol



Armani



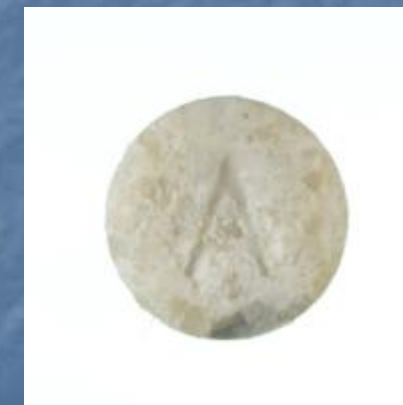
No mark



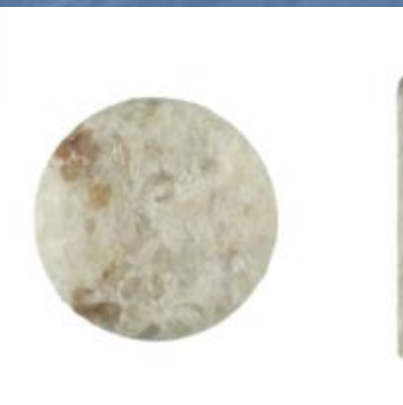
Omega



Diamond



A



Crystals

- Very little crystal meth
- Very little crack cocaine



Lots of crystal MDMA

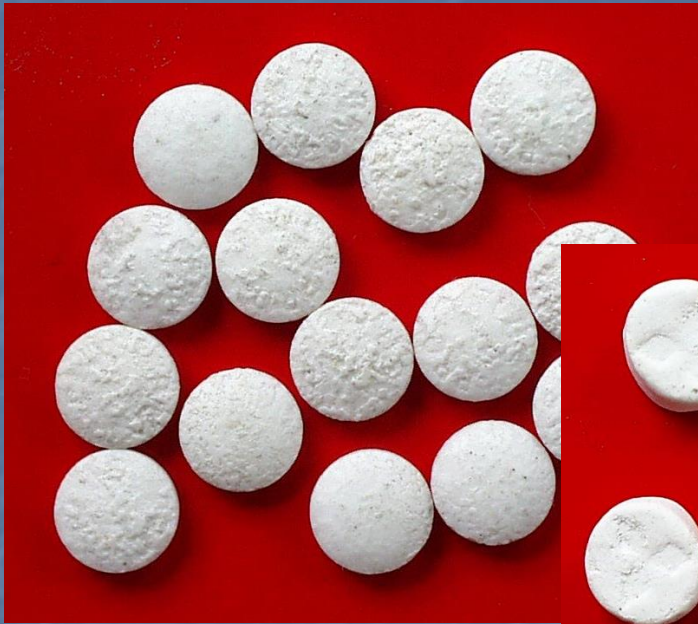


Drugs in ecstasy tablets marked with the Mitsubishi logo

- Ephedrine, Ketamine, Paracetamol, Caffeine
- MDMA
- Ephedrine, Caffeine
- Diazepam, Ketamine
- Ephedrine
- Ketamine
- DL-amphetamine
- MDMA, Caffeine
- MDMA, MDEA
- Ephedrine, Ketamine
- PMA, PMMA



Fake Ecstasy tablets



**Defaced Pro-plus,
caffeine**



No drug, plaster-of-Paris



170 tablets



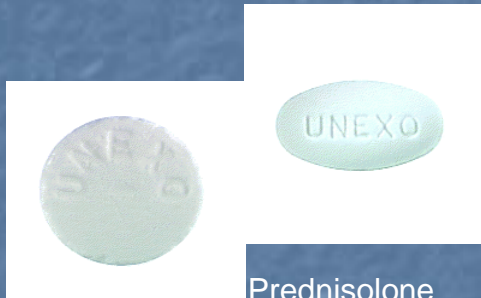
**Hand engraved logo,
xanthanol niacinate ?**

Confectionary easily confused with ecstasy



detect artificial sweeteners (e.g. aspartame, acesulfame) as confirmation that product is confectionary

Oral Anabolic Steroids



Prednisolone

Unexolabs (PVT) Ltd.
Pakistan



Methandrostenolone

Akrikhin Pharmaceuticals
Russia



Stanozolol
Unknown



Methandrostenolone
Unknown



Stanozolol
British Dragon
China



Methandrostenolone
British Dispensary (LP) Co Ltd
Thailand

Diazepam tablets of unknown origin



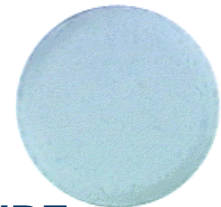
CX 10



MSJ



WILSHIRE



BJ / 5



K 5mg



g



MANO 10



W or M



TP / 10



Hallucinogenic (magic) mushrooms



Psilocybe semilanceata
Liberty Cap

<http://www.canedintotnes.co.uk/mushrooms/libcap1.htm>



£10
13.5g

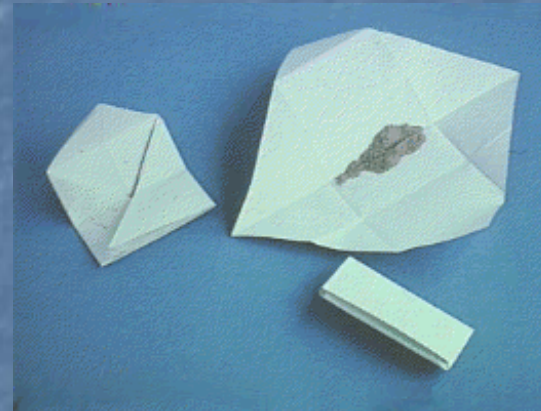
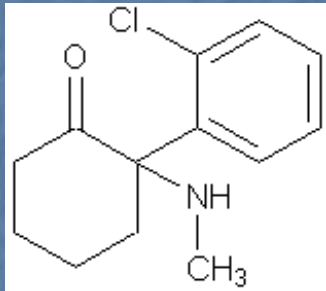
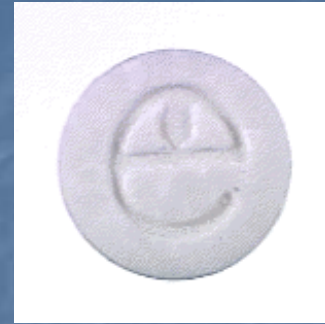
from Holland ?



Psilocybe cubensis
Colombia

Ketamine

dissociative anaesthetic



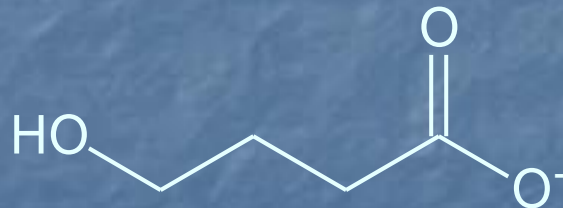
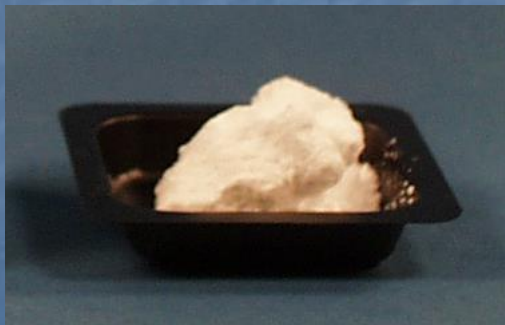
Intravenous anaesthetic
human & veterinary

Solution evaporated
& powder used in
tablets or snorted

GHB gammahydroxybutyrate

GHB is a solid

- usually seen as a liquid also as powder in wraps or plastic bags or in capsules
- methods for GHB production easily available on Internet - produce preparations of unknown concentration



New Psychoactive substances ("LEGAL HIGHS")

