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(54) Title : METHOD AND AGENT FOR DETECTING DRUGS IN BEVERAGES

(54) Titre : METHODE ET AGENT POUR LA DETECTION DE DROGUES DANS LES BOISSON

(57) Abstract : The present invention relates to a method for combating chemical submission, which comprises: putting into solution, in a beverage, a pharmaceutical form comprising an active ingredient and at least 0.05 mg, preferably from 0.2 to 5 mg, even more preferentially from 0.3 to 2 mg of at least one water-soluble colouring agent chosen from: indigocarmine or E 132, erythrosine or E 127, brilliant blue FCF, alphazurine FG, fast green FCF, quinizarine green SS, orange II, tartrazine and Sunset yellow FCF, detecting the pharmaceutical form, said detection being characterized by the immediate change in colour of the beverage; it also relates to the use of said colorant for combating chemical submission, and also to a non-film-coated solid pharmaceutical form comprising said colorant.

(57) Abrégé : La présente invention porte sur une méthode pour lutter contre la soumission chimique comprenant: la mise en solution dans une boisson d'une forme pharmaceutique comportant un principe actif et au moins 0,05 mg, de préférence de 0,2 à 5 mg, plus préférentiellement encore de 0,3 à 2 mg d'au moins un agent colorant hydrosoluble choisi parmi: l'indigocarmin ou E 132, l'érythrosine ou E 127, le brillant bleu FCF, l'alphazurine FG, le fast green FCF, la quinizarine green SS, l'orange II, la tartrazine, Sunset yellow FCF, la détection de la forme pharmaceutique caractérisée par la modification immédiate de la couleur de la boisson; elle porte également sur l'utilisation dudit colorant pour lutter contre la soumission chimique, ainsi que sur une forme pharmaceutique solide non pelliculée comprenant ledit colorant.

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METHOD FOR COMBATING SURREPTITIOUS ADMINISTRATION OF
CHEMICALS, USE OF A COLORING AGENT FOR COMBATING
SURREPTITIOUS ADMINISTRATION OF CHEMICALS AND
PHARMACEUTICAL COMPOSITION ENABLING THE IMPLEMENTATION
5 OF THE METHOD

The subject of the invention is a method for combating surreptitious administration of chemicals.

10 For some years, delinquents have been using the hypnotic properties of certain substances to drug someone without their knowledge. The criminals do not hesitate to introduce surreptitiously into their victim's drink a pharmaceutical form to alter their
15 behavior, or indeed to render them totally amnesic. Once the victim has been deprived of all awareness, the criminal can take advantage of them: theft, rape or extortion of money. Moreover, the ingestion of such a pharmaceutical form without regard to the
20 prescribed doses can lead to serious consequences, particularly if it is absorbed with a quantity of alcohol. The pharmaceutical form can also produce harmful interactions with other medicaments which the victim could have taken beforehand.

25 From the state of the art, a hypnotic, Rohypnol, is known which is widely used for illicit purposes by reason of its ease of dissolution and its imperceptible nature. The formulation of this drug
30 has been revised to result in a tablet green on the outside and blue on the inside, film-coated and thus slow to dissolve, releasing a blue color. However, the blue coloration is only visible after a quarter hour of immersion in the liquid; the victim is thus
35 not in a position to detect the surreptitiously introduced hypnotic if they drink their drink immediately.

Also known from the state of the art is the document WO 2005/059541 which relates to a kit for detecting drugs stealthily introduced into drinks. However, this system only protects persons provided with this kit.

It is thus vital and urgent to find a method enabling immediate detection of the illicit misuse of drugs in case of surreptitious chemical administration without resorting to a detection device or kit.

It would be advantageous if at least preferred embodiments of the present invention provide such a method utilizing a pharmaceutical form comprising at least one compound enabling immediate detection of said pharmaceutical form illicitly introduced into a drink, and provide this pharmaceutical form.

The purpose of the present invention is to offer a new method for combating surreptitious administration of chemicals. This purpose is achieved by means of a method for combating surreptitious administration of chemicals comprising:

- dissolution in a drink of a solid pharmaceutical form comprising an active principle and at least 0.05 mg, preferably from 0.2 to 5 mg, still more preferably from 0.3 to 2 mg of at least one orally acceptable water-soluble coloring agent selected from the group comprising indigocarmine, erythrosine, brilliant blue FCF, alphasaurine FG, fast green FCF, quinizarin green SS, orange II, tartrazine and sunset yellow FCF, and
- detection of the pharmaceutical form by the immediate change in the color of the drink.

The invention relates to the utilization in a solid pharmaceutical form of at least 0.05 mg, preferably from 0.2 to 5 mg, still more preferably from 0.3 to 2 mg of at least one water-soluble coloring agent selected from indigocarmine, erythrosine, brilliant blue FCF,

alphazurine FG, fast green FCF, quinizarin green SS, orange II, tartrazine and sunset yellow FCF for combating surreptitious administration of chemicals.

5 The invention also relates to a non-film-coated solid pharmaceutical form for combating surreptitious administration of chemicals comprising an active principle and at least 0.05 mg, preferably from 0.2 to 5 mg, still more preferably from 0.3 to 2 mg of at least
10 one water-soluble coloring agent selected from indigocarmine, erythrosine, brilliant blue FCF, alphazurine FG, fast green FCF, quinizarin green SS, orange II, tartrazine and sunset yellow FCF, and pharmaceutically acceptable excipients.

15 In the present invention, "non-film-coated solid pharmaceutical form" is understood to mean any solid form which does not include a coating on its most external surface intended to be in contact with the
20 medium wherein it is dissolved or with the mucous membranes. Thus, in the case of a tablet, the latter will not include an external coating. Nonetheless, the active substance may be present within this tablet in or in the form of coated granules.

25 "Surreptitious administration of chemicals" is understood to mean the administration of a psycho-active substance without the victim's knowledge for criminal or malicious purposes.

30

The present invention as claimed herein is described in the following items 1 to 12:

1. A method for the immediate detection into a drink of
5 a pharmaceutical form illicitly introduced into said drink,
said method comprising:

- dissolution in a drink of said pharmaceutical
form, said form being solid and consisting of:

10 - an active principle which modifies the state
of consciousness of a person,

- at least 0.05 mg of a water-soluble coloring
agent selected from indigocarmine, erythrosine,
brilliant blue FCF, alphasaurine FG, fast green FCF,
quinizarin green SS, orange II, tartrazine and sunset
15 yellow FCF,

- floating particles and/or particles
perceptible in the mouth, said particles being
microgranules which are insoluble or rendered insoluble
by coating with a lipid material or by coating with an
20 insoluble polymer, said floating particles having a
diameter lying between 50 and 500 μm and said particles
perceptible in the mouth having a diameter greater than
500 μm , and

25 - at least one pharmaceutically acceptable
excipient, and,

- detection of the pharmaceutical form in said drink
characterized by the immediate change in the
organoleptic properties of the drink, said immediate
change taking place in less than one minute.
30

2. The method of item 1, characterized in that said
immediate change takes place in less than 30 seconds.

3. The method of item 2, characterized in that said
35 immediate change takes place in less than 15 seconds.

4. The method of any one of items 1 to 3, characterized in that the active principle is selected from the group consisting of anxiolytics, hypnotics, sedatives and analgesics.

5. The method of any one of items 1 to 4, characterized in that the pharmaceutical form contains at least 25 mg of particles which float and/or are perceptible in the mouth.

6. The method of item 1, characterized in that the water-soluble coloring agent is present in a quantity from 0.2 to 5 mg.

7. The method of any one of items 1 to 6, characterized in that the pharmaceutically acceptable excipient is selected from the group comprising binders, diluents, preservatives, solubilizers, disintegrants, sweeteners, lubricants, flavors, surfactants, glidants, and mixtures thereof.

8. A non-film-coated solid pharmaceutical form for the immediate detection into a drink of an active principle which modifies the state of consciousness of a person, said pharmaceutical form consisting of:

- an active principle which modifies the state of consciousness of a person,

- at least 0.05 mg of a water-soluble coloring agent selected from indigocarmine, erythrosine, brilliant blue FCF, alphasaurine FG, fast green FCF, quinizarin green SS, orange II, tartrazine and sunset yellow FCF,

- floating particles and/or particles perceptible in the mouth, said particles being microgranules which are insoluble or rendered insoluble by coating with a lipid material or by coating with an insoluble polymer, said floating particles having a diameter lying between 50 and 500 μm and said particles perceptible in the mouth having a diameter greater than 500 μm ,

- and at least one pharmaceutically acceptable excipient,

said immediate detection taking place in less than one minute.

5

9. The pharmaceutical form of item 8, characterized in that said immediate detection takes place in less than 30 seconds.

10

10. The pharmaceutical form of item 9, characterized in that said immediate detection takes place in less than 15 seconds.

15

11. The pharmaceutical form of any one of items 8 to 10, characterized in that it takes the form of a conventional tablet, suckable tablet, sublingual tablet, chewable tablet, effervescent tablet, dispersible tablet, or orodispersible tablet; powder for sachets or gel capsules, or thin film.

20

12. The pharmaceutical form of any one of items 8 to 10, characterized in that it is an orodispersible tablet and in that the excipient is a mixture of excipients comprising:

25

- a disintegrating agent,
- a soluble diluent with binding properties,
- a lubricant, and
- optionally a permeabilizing agent, sweeteners and flavors.

30

DETAILED DESCRIPTION OF THE INVENTION

35

The detailed description of the various elements constituting the invention applies equally to all the subjects of the invention: method, utilization and composition.

The solid pharmaceutical form according to the invention comprises an active principle and at least one water-soluble coloring agent which enables the
5 immediate detection of said pharmaceutical form illicitly introduced into a drink.

The coloring agent integrated into a pharmaceutical form makes it possible to color the drink into which
10 the pharmaceutical form is introduced. This agent is particularly useful as it makes it possible to color all types of drink, whether they are clear or opaque with the exception of very dark drinks such as coffee or coca-cola.

15

The Water-Soluble Coloring Agents

According to a first aspect of the invention, the water-soluble coloring agents that can be utilized in the invention are colorants soluble in any liquid at
20 least in part comprising water and which are pharmaceutically acceptable. Such coloring agents can be selected from the following group: indigocarmine or E 132, erythrosine or E 127, brilliant blue FCF, alphazurine FG, fast green FCF, quinizarin green SS,
25 orange II, tartrazine and sunset yellow FCF.

The coloring agent is present in a quantity sufficient to enable a coloration intense enough to be perceived with the naked eye and which can appear
30 from the first seconds after the introduction of the pharmaceutical form into said drink. Thus, the coloring agent is present in a proportion of at least 0.05 mg, preferably from 0.2 to 5 mg, and still more preferably from 0.3 to 2 mg in the pharmaceutical
35 form.

When the coloring agent is indigocarmine, a blue color is released immediately from the pharmaceutical

form, coloring for example the drink blue if it is a colorless drink such as water or lemonade or green if it is a yellow drink such as orange juice.

- 5 Erythrosine, another coloring agent, colors the drinks red.

In the present invention, "immediate" is understood to mean the change in the organoleptic properties of the drink which takes place in less than one minute, preferably in less than 30 seconds, still more preferably in less than 15 seconds, from the introduction of the pharmaceutical form into the drink. For example, in the context of the present invention, the appearance of or change in the color can take place in less than 30 seconds, preferably in less than 15 seconds.

According to another aspect of the invention, the term "immediate" can also be defined as the change in the organoleptic properties of the drink which takes place in less than one minute, preferably in less than 30 seconds, still more preferably in less than 15 seconds from the introduction and the stirring of the pharmaceutical form into the drink.

"Stirring" is understood to mean a setting of the liquid in motion, for example by means of a straw, spoon or by movement of the vessel.

30

According to different particular embodiments of the invention and apart from the coloring agents which are described above and which make it possible to color a doped drink, the detection of the active substance in the drink can also be effected through the presence in the solid pharmaceutical form of at least one compound selected from the group comprising:

35

- opacifying agents, and/or
- fluorescent agents, and/or
- floating particles, and/or
- particles perceptible in the mouth, and/or
- 5 - effervescent microgranules.

In the context of the invention, said compounds can be integrated into the solid pharmaceutical form singly or in combination. For example, a
10 pharmaceutical form containing a coloring agent together with floating particles could be created, or indeed a solid pharmaceutical form comprising a coloring agent and a mixture of the compounds described above could be proposed.

15 The solid pharmaceutical form advantageously comprises at least one coloring agent with floating particles and/or particles perceptible in the mouth and/or effervescent microgranules.

20

Opacifying Agents

Opacifying agents are inorganic compounds which make it possible to make drinks cloudy. These may be silicates such as magnesium silicate, aluminum
25 silicate (in particular kaolin), magnesium aluminum silicate, calcium silicate, titanium dioxide and mixtures thereof. These compounds are generally present in a quantity of at least 15 mg, preferably from 15 to 100 mg, more preferably from 20 mg to
30 60 mg and still more preferably from 25 to 40 mg. Below 15 mg, the opacity could prove more difficult to detect with the naked eye.

35 The opacifying agents will make it possible to make drinks into which the pharmaceutical form is introduced cloudy. Thus, the drink will not only change color, but will become cloudy which will further attract the attention of the person for whom

that drink is intended and will thus facilitate the detection of an undesired active substance.

These agents are particularly useful for rendering
5 cloudy transparent and clear drinks such as water, white wine, apple juice, and spirits such as vodka, white rum, etc.

The opaque appearance of the drink appears from the
10 first seconds after the introduction and preferably stirring of the pharmaceutical form into said drink, concomitantly with the change in color.

Fluorescent Agents

15 The solid pharmaceutical form can also contain a fluorescent agent in a quantity of at least 0.1 mg, preferably in a quantity of at least 1 mg, more preferably between 0.2 and 5 mg, and still more preferably between 0.3 and 2 mg. This agent can be
20 fluorescein and derivatives thereof, or indocyanine green.

This agent is visible in all types of drink in the presence of ultraviolet rays and in the dark. It
25 makes it possible to reveal the pharmaceutical form containing it by emitting fluorescent light which is emitted from the doped drink. This agent is particularly useful for warning the victim when they are in a dark space where it is easy to stealthily
30 introduce a foreign body into a drink.

Advantageously, having become fluorescent, the doped drink appears more luminous than a doped drink containing a pharmaceutical form with coloring agent
35 but devoid of fluorescent agent, thus making it possible to alert the victim immediately.

Floating Particles and Particles Perceptible in the Mouth

The pharmaceutical form can contain floating particles and/or particles perceptible in the mouth. These particles are microgranules comprising a blank support which is insoluble, or rendered insoluble in
5 water or in an alcoholic solution by coating with an insoluble polymer or by coating with a lipid material.

Microgranules

10 Microgranules rendered insoluble in water or in an alcoholic solution are understood to be a blank support consisting of materials soluble in water or in an alcoholic solution covered with at least one layer of materials insoluble in water or in an
15 alcoholic solution and the function whereof is to limit or indeed to prevent the penetration of said media towards the core of the support.

The blank support insoluble in water or in an
20 alcoholic solution advantageously comprises at least one excipient of hydrophobic nature selected from: cellulose, cellulose derivatives (microcrystalline cellulose), phosphate derivatives (calcium phosphates), silica and silicate derivatives
25 (magnesium silicate, aluminum silicate and mixtures thereof) and carnauba wax.

In the context of the present invention, a blank support soluble in water or in an alcoholic solution
30 can also be utilized. The soluble blank support can comprise at least one excipient selected from: starch, saccharose, polyols such as mannitol or lactose and mixtures thereof.

35 It is essential that this soluble blank support be rendered insoluble in water or alcohol by covering it with a coating layer either of:

- polymeric nature comprising at least one hydrophobic polymer and possibly an inert filler and/or a plasticizer and/or a surfactant,

5 - or lipid nature comprising at least one lipid material.

In the context of the present invention, the insoluble blank support can also be covered with at least one coating layer as described above, provided
10 that this does not disadvantageously increase the density of the particles.

The coating ratio represents the ratio between the quantity of dry mass constituting the coating layer
15 over the total mass of the microgranule before coating (as dry mass). The coating ratio lies between 0.1% to 50% m/m, preferably from 2% to 30% m/m, and still more preferably from 5% to 40% m/m.

20 The coating ratio is such that the particles obtained have a density less than that of the drink into which they are to be introduced, preferably a density less than 1, such that they remain on the surface of the drink into which they are to be introduced. Such
25 particles are called floating particles.

Polymeric Coating Layer:

The hydrophobic polymer utilized to ensure the insoluble nature of the microparticles is selected
30 from the following group of products: non-water-soluble cellulose derivatives, (meth)acrylic (co)-polymer derivatives, polyvinyl acetate derivatives and mixtures thereof. More preferably, the hydrophobic polymer(s) is (are) selected from the
35 following group of products: ethylcellulose, cellulose acetate butyrate, cellulose acetate, the type A and type B ammoniomethacrylate copolymers sold under the trade name Eudragit®, in particular

Eudragit® RS 30D, Eudragit® NE 30D, Eudragit® RL 30D, Eudragit® RS PO and Eudragit® RL PO of the poly(ethyl acrylate, methyl methacrylate, trimethylammonioethyl methacrylate) family, polyvinyl acetates and mixtures thereof.

The quantity of hydrophobic polymer lies between 50% to 100%, preferably from 70% to 100%, of the dry mass of the coating layer.

An inert filler can be present in the coating layer in a proportion from 0 to 50% m/m, preferably from 0 to 20% m/m and still more preferably from 5 to 20% of the dry mass of the hydrophobic coating polymer.

The inert filler uniformly distributed in the coating is selected from the group comprising in particular talc, anhydrous colloidal silica, magnesium stearate, glycerol monostearate and mixtures thereof.

When the coating is effected by an aqueous route, a plasticizer can be added to the coating dispersion in a proportion from 0% to 50% m/m, preferably from 2% to 25% m/m, in dry mass of hydrophobic coating polymer.

The plasticizer is in particular selected from the following group of products: glycerol and esters thereof, preferably from the following subgroup: medium-chain triglycerides, acetylated glycerides, glyceryl monostearate, glyceryl triacetate, glyceryl tributyrates, phthalates, preferably from the following subgroup: dibutyl phthalate, diethyl phthalate, dimethyl phthalate and dioctyl phthalate, citrates, preferably from the following subgroup: acetyl tributyl citrate, acetyl triethyl citrate, tributyl citrate and triethyl citrate, sebacates, preferably from the following subgroup: diethyl

sebacate and dibutyl sebacate, adipates, azelates, benzoates, chlorobutanol, polyethylene glycols, plant oils, fumarates, preferably diethyl fumarate, malates, preferably diethyl malate, oxalates, preferably diethyl oxalate, succinates, preferably dibutyl succinate, butyrates, esters of cetyl alcohol, malonates, preferably diethyl malonate, castor oil (the latter being particularly preferred), and mixtures thereof.

10

More preferably, the plasticizer is selected from the following group of products: acetylated mono-glycerides, in particular Myvacet® 9-45, triethyl citrate (TEC), dibutyl sebacate, triacetin, and mixtures thereof.

15

The surfactant is optionally present in the coating in a proportion of 0 to 30% m/m, preferably from 0 to 20% m/m, and, still more preferably, from 5 to 15% of the dry mass of plasticizer. The surfactant is preferably selected from the following group of products: alkali or alkaline earth metal salts of fatty acids, sodium dodecyl sulfate and sodium docusate being preferred, polyethoxylated oils, preferably polyethoxylated hydrogenated castor oil, polyoxyethylene-polyoxypropylene copolymers, polyethoxylated sorbitan esters, polyethoxylated castor oil derivatives, stearates, preferably of calcium, magnesium, aluminum or zinc, polysorbates, stearyl-fumarates, preferably of sodium, glycerol behenate, benzalkonium chloride, acetyltrimethylammonium bromide, cetyl alcohol and mixtures thereof.

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25

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Lipid Coating Layer:

The microgranules can also be coated by coating with a lipid material.

35

The lipid material according to the invention is selected in particular from the following group of products: glyceryl palmitostearate, waxes, polyoxyl-glycerides and glyceryl behenate.

5

The quantity of lipid material lies between 50 and 100%, preferably between 80 and 100%, of the dry mass of the coating layer.

- 10 The quantity of lipid material is selected such that the density of the resulting particles is less than that of the drink into which they are to be introduced, preferably a density less than 1, such that they remain on the surface of the drink into
15 which they are to be introduced.

The floating particles exhibit a total diameter (blank support, optionally coated if necessary) lying between 50 and 500 μm , preferably between 200 and 500
20 μm so as not to be perceptible in the mouth and to ensure some comfort to the patient. On the other hand, the particles perceptible in the mouth exhibit a total diameter greater than 500 μm , preferably greater than 1 mm, so as to be perceived by the lips
25 and above all by the taste buds. The diameter of the floating particles and those perceptible in the mouth is measured by dry method laser granulometry (Malvern laser granulometer: Mastersizer 2000).

- 30 Entirely advantageously, said particles perceptible in the mouth are floating particles.

The quantity of the floating particles and/or the particles perceptible in the mouth contained in the
35 pharmaceutical form is at least 25 mg, preferably 40 mg.

Preferably, the particles which float and/or are perceptible in the mouth can be colored by means of at least one of the following coloring agents: indigocarmine, erythrosine, brilliant blue FCF, 5 alphazurine FG, fast green FCF, quinizarin green SS, orange II, tartrazine, sunset yellow FCF and/or can be rendered fluorescent by means of a fluorescent agent selected from the group comprising fluorescein and derivatives thereof and indocyanine green.

10

Advantageously, the active principle can also be colored with at least one colorant as described above so as to prevent possible sorting between the active principle and the particles which float and/or are 15 perceptible in the mouth.

Also advantageously, the particles which float and/or are perceptible in the mouth are suitable for all types of drink.

20

From the introduction of the pharmaceutical form into the drink, the floating particles immediately rise to the surface of the drink and are visible to the naked eye. These particles remain on the surface of the 25 liquid for at least 5 minutes and preferably for at least 4 hours, more preferably for at least 12 hours.

The particles perceptible in the mouth can also be floating particles. These are detected immediately by 30 the victim on taking the first mouthful of the doped drink.

Effervescent Microgranules

The solid pharmaceutical form can also contain 35 effervescent microgranules. The effervescent microgranules contain a basic excipient which will create an effervescence when it is in the presence of an acidic drink of the soda or beer type.

According to a first aspect, the microgranules comprise a blank support (soluble, insoluble or rendered insoluble) coated with particles of an alkaline agent selected from the group comprising sodium bicarbonate, calcium carbonate, or mixtures thereof.

The quantity of alkaline agent is at least greater than 5 mg, preferably greater than 10 mg and still more preferably greater than 20 mg.

When the pharmaceutical form containing the effervescent microgranules is introduced into an acidic drink, the particles of alkaline agent(s) on contact with the acid present create an effervescence visible to the naked eye.

According to a particular embodiment of the invention, the effervescent microgranules may be coated. The coating is sufficiently permeable to allow the release of particles of effervescent agent over a period of at least thirty minutes to one hour. The coating contains at least one insoluble polymer of the family of cellulose derivatives, vinyl derivatives or acrylic derivatives. It can contain a plasticizer and/or a surfactant. It can be permeabilized by addition of a soluble porogenic agent such as for example soluble derivatives of cellulose, povidone or a disintegrating agent.

The quantity of effervescent microgranules contained in the pharmaceutical form is at least 25 mg, preferably 40 mg.

Preferably, the effervescent microgranules can be colored by means of at least one coloring agent selected from indigocarmine, erythrosine, brilliant

blue FCF, alphazurine FG, fast green FCF, quinizarin green SS, orange II, tartrazine, sunset yellow FCF and/or can be rendered fluorescent by means of a fluorescent agent selected from the group comprising
5 fluorescein and derivatives thereof and indocyanine green.

Thus, effervescence will appear on the surface of the drink after introduction of the pharmaceutical form
10 containing said microgranules.

Active Principle

The invention is suitable for any active principle which modifies the patient's state of consciousness.
15 More particular, the active principle is selected from the group comprising: anxiolytics for example the benzodiazepines, hypnotics, sedatives, and analgesics for example of the opioid type.

20 The anxiolytics are a class of psychotropic drugs, preferably selected from Alprazolam, Bromazepam, Chlordiazepoxide, Clobazam, Clonazepam, Clotiazepam, Clorazepate, Diazepam, Estazolam, Flunitrazepam, Lorazepam, Lormetazepam, Midazolam, Nitrazepam,
25 Nordazepam, Oxazepam, Prazepam, Temazepam, Tetrazepam, Triazolam, clozapine, olanzapine, pirenzepine, zolpidem, zopiclone, zaleplon, meprobamate and etifoxine.

30 The opioids are preferably selected from Alfentanil, Anileridine, Butorphanol, carfentanil, Codeine, Diamorphine (heroin), Dextropropoxyphene, the Enkephalins, the Endorphins, Fentanyl, Hydrocodone, Hydromorphone, Methadone, Morphine, Nalbuphine,
35 Oxycodone, Oxymorphone, Pentazocine, Pethidine (meperidine), Propoxyphene, Remifentanil, Sufentanil, Tramadol and Buprenorphine.

According to a particular aspect of the invention, the active principle present in the pharmaceutical form is in solid form.

5 According to a particular embodiment, the active principle can also be colored by means of at least one coloring agent. The coloring agent can be one of those described above and/or can be rendered fluorescent by addition of a fluorescent agent such
10 as described above.

According to another embodiment, the active principle can be coated onto the particles which float and/or are perceptible in the mouth.

15

Drink

In the present application, the term drink will be used to designate cold drinks and hot drinks, for example water; sparkling water; wine (red, white or
20 rosé); beer (brown or light); liqueurs; spirits such as vodka, rum, brandy, tequila, whisky; cocktails; fruit juices such as orange juice or grape juice; sodas such as coca-cola or lemonade; coffee; tea or herb tea. These drinks are given as an indication but
25 in no way restrictively.

In the present invention, the vessel containing a drink into which the pharmaceutical form may be introduced has a capacity lying between 3 cl and 1 L.

30

The Production Process

Depending on its nature, the active principle can be in the form of microcrystals, microgranules or brought into suspension and coated onto a blank
35 support.

When it is coated onto a blank support, the active principle is in the form of a solution or suspension

in an aqueous or organic solvent. A binder, a diluent and/or an antistatic agent can also be added.

5 The blank support can be any chemically and pharmaceutically inert excipient, existing in particulate, crystalline or amorphous form. By way of example, derivatives of sugars such as lactose or saccharose, hydrolyzed starch (maltodextrins) or also
10 celluloses, are cited. Mixtures such as saccharose and starch or based on cellulose are also used for the preparation of spherical blank supports.

The active principle can also be made into the form of microgranules by a process known per se such as,
15 for example, extrusion-spheronization, coating of the active principle in a perforated turbomixer, in a fluidized bed and others.

The various processes for production of microgranules
20 by dry or wet granulation, presented in "Remington's pharmaceutical Sciences, 16th Ed., 1980, Mack Publ. Co. of Easton, PA, USA" can be utilized in the present invention.

25 The active principle can be coated with a polymer selected on the basis of the type of release desired (immediate, controlled or delayed) or its taste-masking properties.

30 The active principle is next combined with at least one colorant, possibly with another compound making it possible to combat surreptitious administration of chemicals, and with at least one pharmaceutically acceptable excipient.

35 The invention is suitable for any pharmaceutical form. According to an advantageous embodiment, the invention relates to a solid non-film-coated

pharmaceutical form for combating surreptitious administration of chemicals comprising an active principle and at least 0.05 mg, preferably from 0.2 to 5 mg, still more preferably from 0.3 to 2 mg of at least one water-soluble coloring agent selected from indigocarmine, erythrosine, brilliant blue FCF, alphazurine FG, fast green FCF, quinizarin green SS, orange II, tartrazine and sunset yellow FCF enabling the immediate modification of the color of a drink into which said solid non-film-coated pharmaceutical form is introduced.

Such a pharmaceutical form can in particular be an oral form selected from non-coated tablets such as conventional tablets, suckable tablets, sublingual tablets, chewable tablets, effervescent tablets, dispersible tablets, orodispersible tablets, a powder for sachets or gel capsules, and thin films.

The invention is more especially useful for immediate release pharmaceutical compositions, since the criminal will want the effect of loss of vigilance to be as rapid as possible. It could however be adapted to controlled release forms.

Those skilled in the art know how to adapt the formulation depending on the pharmaceutical form and the desired release.

The pharmaceutically acceptable excipients utilized in the solid non-film-coated pharmaceutical compositions according to the invention are conventionally used excipients.

The following may for example be cited:

- binders: for example cellulose derivatives such as HPMC, in particular the grades Pharmacoat® 603 and Pharmacoat® 606, or hydroxypropylcellulose or

hydroxyethylcellulose, microcrystalline cellulose, polyvinylpyrrolidone derivatives, in particular the PVP K 30 grade, polyethylene glycol derivatives, in particular polyethylene glycol the molecular weight
5 whereof lies between 600 and 7000, such as PEG4000 and PEG6000 in particular, and mixtures thereof, and vinyl derivatives such as polyvinyl alcohol;

- diluents: for example soluble diluents such as lactose or mannitol, and cellulose derivatives
10 such as microcrystalline cellulose;

- preservatives: for example parabens, and antioxidants such as ascorbic acid;

- solubilizers: for example poloxamers and cyclodextrins;

15 - disintegrants: for example croscopovidone and croscarmellose sodium;

- sweeteners: such as aspartame and acesulfame potassium;

- lubricants: magnesium stearate, sodium
20 stearyl fumarate and cotton oil;

- flavors: such as mint, lemon, black cherry flavor, etc.;

- surfactants: alkali or alkaline earth metal salts of fatty acids, sodium dodecyl sulfate and
25 sodium docusate, polyethoxylated oils, preferably polyethoxylated hydrogenated castor oil, polyoxyethylene-polyoxypropylene copolymers, polyethoxylated sorbitan esters, polyethoxylated castor oil derivatives, stearates, preferably of calcium,
30 magnesium, aluminum or zinc, polysorbates, stearyl-fumarates, preferably sodium, glycerol behenate, benzalkonium chloride, acetyltrimethyl ammonium bromide, cetyl alcohol and mixtures thereof; and

- glidants: for example silica, talc and
35 mixtures thereof.

In the context of the present invention, orodispersible tablet is understood to mean a "multiparticulate tablet disintegrating in the mouth on contact with

the saliva in less than 40 seconds". According to a particular embodiment, the invention relates to such a tablet which is based on a mixture of excipients and particles of coated active principle exhibiting intrinsic tableting characteristics. The mixing proportion of excipients relative to the particles of coated active principle is from 0.4 to 6, preferably from 1 to 4 parts by weight. The mixture of excipients comprises:

- 10 - a disintegration agent or disintegrant,
- a soluble diluent with binding properties,
- a lubricant,
- possibly, a permeabilizing agent, sweeteners and flavors,
- 15 - a coloring agent making it possible to combat surreptitious administration of chemicals,
- and possibly at least one of the compounds making it possible to combat surreptitious administration of chemicals, selected from opacifying
- 20 agents, fluorescent agents, floating particles, particles perceptible in the mouth, and/or effervescent microgranules.

The proportion of disintegration agent and of soluble agent relative to the mass of the tablet being from 1 to 15%, preferably from 2 to 7% by weight for the first and from 30 to 90%, preferably from 40 to 70% by weight for the second.

30 The soluble diluent with binding properties consists of a polyol with fewer than 13 carbon atoms taking either the form of the directly tabletable product the mean diameter of the particles whereof lies between 100 and 500 micrometers, or in the form of a

35 powder the mean diameter of the particles whereof is less than 100 micrometers, this polyol preferably being selected from the group comprising mannitol,

xylitol, sorbitol and maltitol, the sorbitol not being usable alone.

The disintegration agent is selected from the group comprising in particular the crosslinked sodium carboxymethylcellulose known in the art by the term croscarmellose, crospovidone and mixtures thereof. Through the choice and the proportion of this disintegration agent, the tablet retains an acceptable hardness for normal tablets handling conditions when they are kept in sealed packaging up to temperatures of at least 30°C.

The lubricant preferably utilized in this mixture of excipients is selected from the group comprising magnesium stearate, sodium stearyl fumarate, stearic acid, micronized polyoxyethylene glycol (micronized Macrogol 6000) and mixtures thereof. It can be utilized in a proportion of 0.05 to 2% relative to the total mass of the tablet.

As permeabilizing agent, a compound selected from the group comprising in particular silicas having a high affinity for aqueous solvents, such as the precipitated silica better known under the brand name Syloid, maltodextrins, 1-cyclodextrins and mixtures thereof is used.

The permeabilizing agent enables the creation of a hydrophilic network which facilitates the penetration of the saliva and thus contributes to better disintegration of the tablet.

The various compounds and production processes for orodispersible tablets described in FR2785538, WO0027357, FR2679451, WO 93/01805, FR2766089, WO 00/51568, FR2790387, WO 03/039520 and FR2831820 can be utilized in the present invention.

The invention will be described in more detail below, in particular by means of examples which are given solely by way of illustration.

5

EXAMPLES

Example 1

Orodispersible tablets containing 5 mg of zolpidem and having the following composition are prepared:

10

Constituents	%	mg/unit
Zolpidem grains	32.8	41.05
Microcrystalline cellulose	10.0	12.50
Mannitol	43.7	54.57
Crospovidone	10.0	12.50
Colorant E132	0.4	0.50
Aspartame	1.0	1.25
Flavor	0.1	0.13
Silica	1.0	1.25
Mg stearate	1.0	1.25
Total	100.0	125.0

The orodispersible tablets are prepared as follows.

Firstly the zolpidem grains which have the following percentage composition are prepared:

15

NPTAB 190 (180-220 μ m)	56
Zolpidem tartrate	13
Hypromellose 603	7
1N HCl	2
Aquacoat ECD30	13
Hypromellose 603	6
Triethyl citrate	3

The zolpidem tartrate is dissolved in water with the aid of HCl, then a dispersion is prepared by addition of hypromellose 603. NPTAB 190 sugar spheres and the

20

dispersion prepared above are introduced into a GPCG1 fluidized bed (Glatt). An aqueous dispersion of aquacoat ECD30, triethyl citrate and hypromellose 603 is then introduced to obtain a taste-masking coating.

5

The zolpidem grains are then mixed with the tableting excipients. The powdery mixture is then tableted on a rotary tablet press (SVIAC PR12) equipped with round, convex punches, at a compression force of 5 kN.

10

125 mg tablets of 7 mm diameter are obtained which have the following properties:

Hardness 24N

Disintegration (measured according to monograph 2.9.1 of European Pharmacopeia 6.1): 15 secs

Friability (measured according to monograph 2.9.7 of European Pharmacopeia 6.1): 0.03%.

The tablets exhibit a pleasant mouth feel.

20

One tablet is introduced into a transparent vessel containing 250 ml of water. An intense blue coloration appears as soon as the tablet is disintegrated.

25 A second tablet is introduced into a transparent vessel containing 250 ml of orange juice. The orange color of the juice immediately changes to an intense greenish color.

30 Example 2

A conventional immediate release tablet containing 10 mg of Zolpidem is prepared.

	%	Mg/unit
Zolpidem grains	32.8	82.0
Microcrystalline cellulose	10.0	25.0
Lactose	32.7	81.75
Calcium silicate	20.0	50.0

Povidone	3.0	7.5
Silica	0.9	2.25
Colorant E132	0.1	0.25
Mg stearate	0.5	1.25
Total	100.0	250.0

Firstly the zolpidem grains are prepared. The zolpidem grains are prepared as in example 1.

- 5 The Zolpidem grains are then mixed with the excipients mentioned in the above table. The powdery mixture is then tableted.

One tablet is then dissolved in a glass of pulp-free
10 orange juice. Immediately after introduction and stirring of the pharmaceutical form, a greenish coloration and a cloudiness appear in a manner visible to the naked eye.

15 Example 3

Two types of orodispersible tablet each containing 10 mg of Zolpidem and having the following formula are prepared:

Constituents	%	mg/unit
Zolpidem grains	32.8	82.1
Microcrystalline cellulose	9.6	23.90
Mannitol	30.0	75.00
Crospovidone	5.0	12.50
Floating particles	20.0	50.00
Colorant E132	1.0	2.50
Flavor	0.1	0.25
Silica	1.0	2.50
Mg stearate	0.5	1.25
Total	100.0	250.0

- 20 These tablets are prepared as in example 1, utilizing the constituents in the above table.

For the first series of tablets (C1), the floating particles are prepared as follows:

5 NPTAB 190 (180-220 μ m) blanks are coated with an aqueous dispersion of ethylcellulose, triacetin and talc. The coating factor is 30% of dry mass and the talc/polymer ratio is 1:2.

10 For the second series of tablets (C2), the floating particles are phosphate particles of dibasic calcium phosphate dihydrate coated with glyceryl palmitostearate. The glyceryl palmitostearate/calcium phosphate ratio is 1:4.

15 The tablets of both series disintegrate in less than 30 secs, and exhibit a pleasant mouth feel.

20 One tablet of each type is introduced into a glass of water. The disintegration takes place immediately and the water turns an intense blue color and the presence of particles on the surface is detectable with the naked eye. These floating particles are visible on the surface for more than 3 hours.

25 Example 4

An orodispersible tablet containing 10 mg of Zolpidem, floating particles and a coloring agent, and having the following formula is prepared:

	mg/unit	%
Zolpidem tartrate coated grains*	80.00	17.8
Avicel PH 200	45.00	10.0
Mannitol SD 200	65.05	14.5
Floating particles	200.00	44.4
Kollidon CL	45.00	10.0
Black cherry flavor	0.45	0.10
Aspartame	4.50	1.00
Sunset Yellow (E110)	1.00	0.22

Syloid 244 FP	4.50	1.00
Mg stearate	4.50	1.00
Total	450.0	100.0

These tablets are prepared as in example 1, utilizing the constituents in the above table.

- 5 The floating particles are prepared as follows: NPTAB 190 (180-220 μ m) blanks are coated with an aqueous dispersion of ethylcellulose and myvacet 9-45. The coating factor is 30% of dry mass and the plasticizer/polymer ratio is 24%.

10

After introduction into a glass of water and stirring, the form colors the medium orange-yellow and releases floating particles visible on the surface for more than three hours.

15

Example 5

A conventional tablet containing floating particles based on carnauba wax microgranules and a coloring agent is prepared.

20

	mg/unit	%
Granulated oxycodone HCl	10.89	4.36
Avicel PH 102	25.00	10.00
Mannitol SD 200	133.11	53.24
Carnauba wax pellets	50.00	20.0
Starch 1500	25.00	10.00
Indigocarmine E132	1.00	0.40
Syloid 244 FP	2.50	1.00
Mg stearate	2.50	1.00
Total	250.0	100.0

The oxycodone is granulated with 4.1% of HPMC 603 in a high-shear mixer granulator. The active substance is then mixed with the tableting excipients of the above
25 formula. The mixture is then tableted on a rotary

tablet press (SVIAC PR12) equipped with round, convex punches, at a compression force of 16 kN.

250 mg tablets of 8.5 mm diameter are obtained which
5 have the following properties:

Hardness 95N

Disintegration (measured according to monograph 2.9.1 of European Pharmacopeia 6.1): 3 mins

Friability (measured according to monograph 2.9.7
10 of European Pharmacopeia 6.1): 0.1%.

The tablets obtained after introduction into a drink immediately develop an uniform blue coloration, and release floating particles visible on the surface for
15 more than 3 hours.

Example 6

An orodispersible tablet containing 5 mg of anhydrous oxycodone HCl and a coloring agent is prepared.

20

	%	mg/unit
Oxycodone HCl grains*	22.0	29.65
Avicel PH 102	10.0	13.50
Mannitol SD 200	53.4	72.09
Crospovidone	10.0	13.50
Indigocarmine E132	0.4	0.54
Aspartame	2.0	2.70
Flavor	0.50	0.675
Syloid 244 FP	0.50	0.675
Mg stearate	1.25	1.69
Total	100.0	135.00

The orodispersible tablets are prepared as follows.

Firstly the oxycodone grains which have the following
25 percentage composition are prepared:

Oxycodone HCl grains	%	mg/unit
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NPTAB 250	54.0	16.01
Oxycodone HCl	18.3	5.43
Hypromellose 603	7.6	2.25
Eudragit NE30D vs	16.7	4.95
Syloid 244FP	3.4	1.01
Total	100.0	29.65

The oxycodone is dissolved in water, then a dispersion is prepared by addition of hypromellose 603. Sugar spheres NPTAB 250 are introduced into a GPCG1 (Glatt) fluidized bed, and the dispersion prepared above is sprayed onto these. An aqueous dispersion of Eudragit NE30D and Syloid is then sprayed so as to obtain a taste-masking coating.

- 10 The oxycodone grains are then mixed with the tableting excipients. The powdery mixture is then tableted on a rotary tablet press (SVIAC PR12) equipped with round, convex punches, of diameter 7 mm. 135 mg tablets are obtained. From the introduction of one tablet into a glass of water followed by stirring, an intense and uniform blue coloration develops.

Example 7

- 20 A conventional tablet containing 10 mg of oxycodone HCl and a coloring agent is prepared.

	mg/unit	%
Granulated oxycodone HCl	10.89	5.45
Avicel PH 102	20.00	10.00
Mannitol SD 200	144.12	72.06
Starch 1500	20.00	10.00
Indigocarmine E132	1.0	0.50
Syloid 244 FP	2.0	1.00
Mg stearate	2.0	1.00
Total	200.0	100.0

The granulated oxycodone is prepared as in example 5. It is then mixed with the tableting excipients so as to obtain 200 mg tablets of 8 mm diameter on a rotary press. This tablet dissolved in a glass of apple juice
5 develops a visible greenish coloration in less than one minute.

Example 8

A conventional tablet containing 10 mg of Zolpidem, a
10 coloring agent and an opacifying agent is prepared.

	mg/unit	%
Zolpidem tartrate	10.00	4.0
Avicel PH 200	25.00	10.0
Lactose DCL 21	152.75	61.1
Calcium silicate (FM 1000)	50.00	20.0
PVP K30	7.50	3.0
Colorant E132	1.00	0.4
Syloid 244 FP	2.50	1.0
Mg stearate	1.25	0.5
Total	250.0	100.0

In this example, the active substance is mixed directly in the powder state with the tableting excipients. The
15 mixing makes it possible to obtain, on a rotary press equipped with round punches of 8.5 mm diameter, 250 mg tablets. After introduction and stirring of one tablet into a glass of water, a blue coloration and cloudiness
visible to the naked eye appear in less than one
20 minute.

Example 9

Grains coated with Zolpidem

The zolpidem tartrate is dissolved in water with the
25 aid of HCl, then a dispersion is prepared by addition of hypromellose 603.

The Zolpidem grains are obtained by spraying the dispersion onto the NPTAB190 sugar spheres within a fluidized bed.

	%	Mg/unit
NPTAB 190 (180-220 μ m)	73.19	22.52
Zolpidem tartrate	16.25	5.00
Hypromellose 603	8.93	2.75
1N HCl	1.64	0.50
Total	100.0	30.77

5

Coloration of the Zolpidem-coated grains.

A dispersion of Aquacoat is next prepared with HPMC, TEC (triethyl citrate) and the colorant; it is sprayed
10 onto the active substance-coated grains within a fluidized bed.

	% coated grains	mg per unit
Zolpidem coated grains	75.97	30.77
Aquacoat ECD30	10.17	4.12
HPMC 603	10.17	4.12
TEC	2.44	0.99
Colorant E132	1.24	0.50
Total Utilized	100.00	40.51

Coloration of the floating particles.

15

The colored floating particles are prepared as follows:
NPTAB 250 blanks are coated with an aqueous dispersion of ethylcellulose and Myvacet® 9-45 containing the dissolved colorant by spraying in a fluidized bed.

	% coated grains	mg/gel capsule
NPTAB 250 (200-300 μ m)	79.33	79.33
Aquacoat ECD 30D	15.87	15.87

Myvacet® 9-45	3.81	3.81
Indigocarmine E132	1.00	1.00
Total Utilized	100.00	100.00

5 The two populations are mixed in the proportions:
40.51 mg of zolpidem colored particles and 100 mg of
colored floating particles. The two populations are not
distinguishable. When the gel capsule is opened and its
contents introduced into a glass of water, the blue
coloration and the floating particles appear at once.

10 It is to be understood that, if any prior art publication
is referred to herein, such reference does not constitute
an admission that the publication forms a part of the
common general knowledge in the art, in Australia or any
other country.

15 In the claims which follow and in the preceding description
of the invention, except where the context requires
otherwise due to express language or necessary implication,
the word "comprise" or variations such as "comprises" or
"comprising" is used in an inclusive sense, i.e. to specify
20 the presence of the stated features but not to preclude the
presence or addition of further features in various
embodiments of the invention.

CLAIMS

1. A method for the immediate detection into a drink of a pharmaceutical form illicitly introduced into said drink, said method comprising:

- dissolution in a drink of said pharmaceutical form, said form being solid and consisting of:

- an active principle which modifies the state of consciousness of a person,

- at least 0.05 mg of a water-soluble coloring agent selected from indigocarmine, erythrosine, brilliant blue FCF, alphasaurine FG, fast green FCF, quinizarin green SS, orange II, tartrazine and sunset yellow FCF,

- floating particles and/or particles perceptible in the mouth, said particles being microgranules which are insoluble or rendered insoluble by coating with a lipid material or by coating with an insoluble polymer, said floating particles having a diameter lying between 50 and 500 μm and said particles perceptible in the mouth having a diameter greater than 500 μm , and

- at least one pharmaceutically acceptable excipient, and,

- detection of the pharmaceutical form in said drink characterized by the immediate change in the organoleptic properties of the drink, said immediate change taking place in less than one minute.

2. The method as claimed in claim 1, characterized in that said immediate change takes place in less than 30 seconds.

3. The method as claimed in claim 2, characterized in that said immediate change takes place in less than 15 seconds.

4. The method as claimed in any one of claims 1 to 3, characterized in that the active principle is selected from the group consisting of anxiolytics, hypnotics, sedatives and analgesics.

5. The method as claimed in any one of claims 1 to 4, characterized in that the pharmaceutical form contains at least 25 mg of particles which float and/or are perceptible in the mouth.

6. The method as claimed in claim 1, characterized in that the water-soluble coloring agent is present in a quantity from 0.2 to 5 mg.

7. The method as claimed in any one of claims 1 to 6, characterized in that the pharmaceutically acceptable excipient is selected from the group comprising binders, diluents, preservatives, solubilizers, disintegrants, sweeteners, lubricants, flavors, surfactants, glidants, and mixtures thereof.

8. A non-film-coated solid pharmaceutical form for the immediate detection into a drink of an active principle which modifies the state of consciousness of a person, said pharmaceutical form consisting of:

- an active principle which modifies the state of consciousness of a person,

- at least 0.05 mg of a water-soluble coloring agent selected from indigocarmine, erythrosine, brilliant blue FCF, alphasaurine FG, fast green FCF, quinizarin green SS, orange II, tartrazine and sunset yellow FCF,

- floating particles and/or particles perceptible in the mouth, said particles being microgranules which are insoluble or rendered insoluble by coating with a lipid material or by coating with an insoluble polymer, said floating particles having a diameter lying between 50 and 500 μm and said particles perceptible in the mouth having a diameter greater than 500 μm ,

- and at least one pharmaceutically acceptable excipient,

said immediate detection taking place in less than one minute.

5

9. The pharmaceutical form as claimed in claim 8, characterized in that said immediate detection takes place in less than 30 seconds.

10

10. The pharmaceutical form as claimed in claim 9, characterized in that said immediate detection takes place in less than 15 seconds.

15

11. The pharmaceutical form as claimed in any one of claims 8 to 10, characterized in that it takes the form of a conventional tablet, suckable tablet, sublingual tablet, chewable tablet, effervescent tablet, dispersible tablet, or orodispersible tablet; powder for sachets or gel capsules, or thin film.

20

12. The pharmaceutical form as claimed in any one of claims 8 to 10, characterized in that it is an orodispersible tablet and in that the excipient is a mixture of excipients comprising:

25

- a disintegrating agent,
- a soluble diluent with binding properties,
- a lubricant, and
- optionally a permeabilizing agent, sweeteners and flavors.

30

13. The method as claimed in any one of claims 1 to 7, or the pharmaceutical form as claimed in any one of claims 8 to 12, substantially as herein described with reference to any one of the Examples.