

# Overview of the requirements for homoeopathic products of HERBAL origin

## A Guide Through The Different Sections

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## Most important General Chapters for HOM texts (non exhaustive list)

- Foreign matter (2.8.2)
- Water (2.2.13) ; Relative density (2.2.5)
- Gas chromatography (2.2.28) and liquid chromatography (2.2.29)
- Loss on drying (2.2.32) ; Total ash (2.4.16) ; Heavy metals (2.4.27)
- Ash insoluble in hydrochloric acid (2.8.1) ; Swelling index (2.8.4)
- Pesticides (2.8.13)
- Bitterness value (2.8.15) ; Dry residue (2.8.16)
- Aflatoxin B1 (2.8.18), Ochratoxin A (2.8.22)
- Ethanol content (2.9.10) : Methanol and 2-propanol (2.9.11)
- Microbiological quality of non-sterile pharmaceutical preparations and substances for pharmaceutical use (5.1.4)

|                          |                                     |
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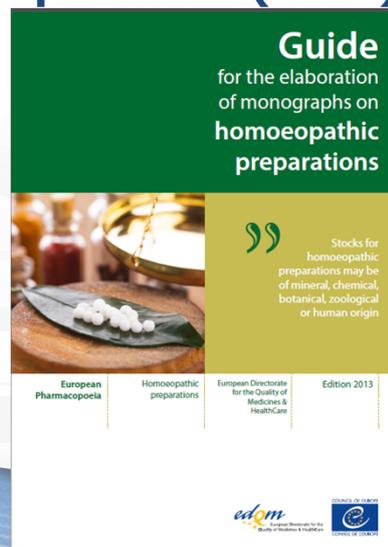
## When to require a test for loss on drying (2.2.32) or for water (2.2.13) ?

The [Guide for the elaboration of monographs on homoeopathic preparations \(2013 Edition\)](#) states on page 15:

*"For herbal drugs containing **more than 10 mL/kg (1 per cent) of essential oil**, the determination of water by distillation (2.2.13) is carried out instead of the test for loss on drying. The degree of size reduction of the drug or the fineness of the powder using a sieve number (2.1.4) is indicated if required."*

## Guide for the elaboration of monographs on homoeopathic preparations (2013)

[https://www.edqm.eu/medias/fichiers/new\\_guide\\_for\\_the\\_elaboration\\_of\\_monographs\\_on\\_homoeopathic\\_preparations\\_edition\\_2013.pdf](https://www.edqm.eu/medias/fichiers/new_guide_for_the_elaboration_of_monographs_on_homoeopathic_preparations_edition_2013.pdf)



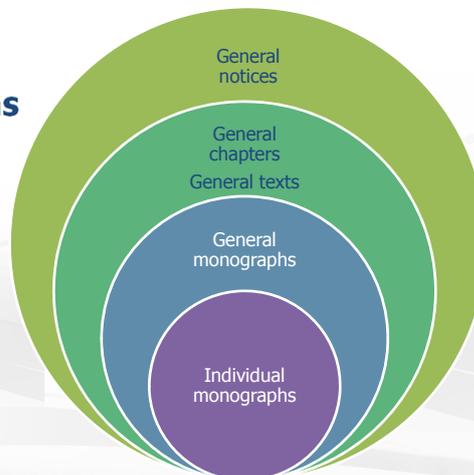
# General Monographs (HOM)

## General and Specific monographs

ALL APIs, excipients, finished products



COMPLEMENTARITY



## *Homoeopathic preparations (1038)*

**DEFINITION:** are prepared from substances, products or preparations called stocks, in accordance with a homoeopathic manufacturing procedure

**Raw materials:** natural or synthetic origin ; TSE and Viral safety (5.1.7)

Ref. Herbal drug PPH (2045)

**Vehicles:** excipients used for the preparation of certain stocks or for the potentiation process (for ex. purified water, ethanol)

Ref. Mother tincture PPH (2029)

**Stocks:** starting materials for the production of homoeopathic preparations

**Potentiation:** usually decimal or centesimal

**Dosage form:** complies with any relevant dosage form monograph in the European Pharmacopoeia ...

### *Herbal drugs for homoeopathic preparations (2045)*

**DEFINITION:** mainly whole plants or parts of plants, fragmented or broken - include algae, fungi or lichens - usually in fresh form

**PRODUCTION:** cultivated or wild plants ; suitable collection, cultivation, harvesting, sorting, drying, fragmentation and storage conditions ; free from impurities such as soil, dust, dirt and other contaminants such as fungal, insect and other animal contaminants ; Adequate measures have to be taken in order to ensure the microbiological quality (5.1.4)

**IDENTIFICATION:** macroscopic + where necessary microscopic and others (for example, thin-layer chromatography)

#### **TESTS**

**ASSAY:** where applicable, appropriate method

**STORAGE:** protected from light.

### *Mother tinctures for homoeopathic preparations (2029)*

**DEFINITION:** liquid preparations obtained by the solvent action of a suitable vehicle upon raw materials (fresh form but may be dried), from plant juices, with or without the addition of a vehicle

**PRODUCTION:** maceration, percolation, digestion, infusion, decoction, fermentation or as described in the individual monographs - When contains ethanol, tested for 2-propanol (2.9.11), maximum limit of 0.05 per cent V/V

**CHARACTERS:** appearance, odour

**IDENTIFICATION:** at least 1 chromatographic Id

#### **TESTS**

**ASSAY:** where applicable, assay with quantitative limits

**STORAGE:** protected from light, maximum storage temperature.

#### **LABELLING**

## Herbal drugs for homoeopathic preparations (2045)

### TESTS

The tests for foreign matter and loss on drying should be performed

**Foreign matter (2.8.2).** Where a fresh plant is used as a starting material, the maximum content of foreign matter is indicated in the individual monograph. Where a dried plant is used as a starting material for the manufacture, the content of foreign matter is not more than 2 per cent *m/m*, unless otherwise stated.

**Adulteration.** A specific appropriate test may apply to herbal drugs.

**Loss on drying (2.2.32).** Carry out a test for loss on drying on dried material. If a fresh plant is processed more than 24 h after harvesting, a test for loss on drying is also carried out.

**Water (2.2.13).** A determination of water is carried out on herbal drugs.

**Pesticides (2.8.13).** Herbal drugs for homoeopathic preparations (including the preparation in which the plant might be used and, where necessary, the preparation in which the plant might be used and, where necessary, the preparation in which the plant might be used and, where necessary, the preparation in which the plant might be used) are performed on the mother tincture according to the requirements of the individual monograph. If appropriate, herbal drugs for homoeopathic preparations comply with the requirements of the individual monograph.

**Total ash (2.4.16).**

**Bitterness value (2.8.15).**

**Heavy metals (2.4.27).** Unless otherwise stated in an individual monograph, the following limits apply:

– cadmium: maximum 1.0 ppm;

– lead: maximum 5.0 ppm;

– mercury: maximum 0.1 ppm.

If justified by the nature or origin of the herbal drug or if required by the individual monograph, the test for heavy metals may be performed on the mother tincture.

**Aflatoxin B<sub>1</sub> (2.8.18).** Where appropriate, limits for aflatoxin B<sub>1</sub> may be set.

**Ochratoxin A (2.8.22).** Where appropriate, a limit for ochratoxin A may be set.

**Radioactive contamination.** In some specific circumstances, the limits for radioactive contamination may be set.

## Mother tinctures for homoeopathic preparations (2029)

### TESTS

The limits in an individual monograph are set to include official limits. If the test for relative density is carried out, the test for ethanol is also carried out.

**Relative density (2.2.5).** The mother tincture for homoeopathic preparations complies with the requirements of the individual monograph.

**Ethanol (2.9.10).** The ethanol content complies with that prescribed in the individual monograph.

**Methanol (2.9.11):** maximum 0.05 per cent *V/V*, unless otherwise stated.

**Dry residue (2.8.16).** Where applicable, the mother tincture for homoeopathic preparations complies with the requirements of the individual monograph.

**Pesticides (2.8.13).** Where applicable, the mother tincture for homoeopathic preparations (including the preparation in which the plant might be used and, where necessary, the preparation in which the plant might be used and, where necessary, the preparation in which the plant might be used) are performed on the mother tincture according to the requirements of the individual monograph. Limits are set, taking into consideration the nature and the origin of the herbal drug.

**Heavy metals (2.4.27).** Justification is provided in cases where the limits for heavy metals are set. Limits are set, taking into account when setting these limits.

If required by the competent authority, suitable limits for the content of heavy metals may be set.

**Aflatoxin B<sub>1</sub> (2.8.18).** Where appropriate, limits for aflatoxin B<sub>1</sub> may be set, taking into consideration the nature and the origin of the herbal drug.

**No cross-reference in individual monographs**

## Complementarity

- "General monographs apply to all substances and preparations within the scope of the Definition section of the general monograph, except where a preamble limits the application, for example to substances and preparations that are the subject of a monograph of the pharmacopoeia." **General notices**
- "General monographs and individual monographs are complementary. If the provisions of a general monograph do not apply to a particular product, this is expressly stated in the individual monograph." **General notices**
- No cross-reference in individual monographs

→ **Example: test for foreign matter**

## Example: test for foreign matter

### Herbal drugs for homoeopathic preparations (2045)

#### TESTS

The tests for foreign matter and loss on drying should be performed before any further processing of the fresh plant.

**Foreign matter (2.8.2).** Where a fresh plant is used as a starting material for the manufacture of homoeopathic preparations, the content of foreign matter is as low as possible; if necessary, the maximum content of foreign matter is indicated in the individual monograph.

Where a dried plant is used as a starting material for the manufacture of homoeopathic preparations, carry out a test for foreign matter, unless otherwise prescribed in the individual monograph. The content of foreign matter is not more than 2 per cent m/m, unless otherwise prescribed or justified and authorised.

## Example: test for foreign matter

### Hyoscyamus for homoeopathic preparations (2091)

#### TESTS

**Foreign matter (2.8.2):** if required by the competent authority, **≠ 2 per cent**  
maximum 5 per cent.

### Ignatia for homoeopathic preparations (2513)

#### TESTS

**CAUTION:** when the powdered herbal drug (710) (2.9.12) is used, take the necessary precautions as indicated under Identification B.

**Foreign matter (2.8.2):** maximum 1.0 per cent.

**≠ 2 per cent**

If the requirement for a specific herbal drug is *maximum 2 per cent* as stated in the general monograph on *Herbal drugs for homoeopathic preparations (2045)*, then **nothing is stated in the individual monograph. The test must nevertheless be done and the limit is 2 per cent.** If the requirement is different, it is stated in the individual monograph.

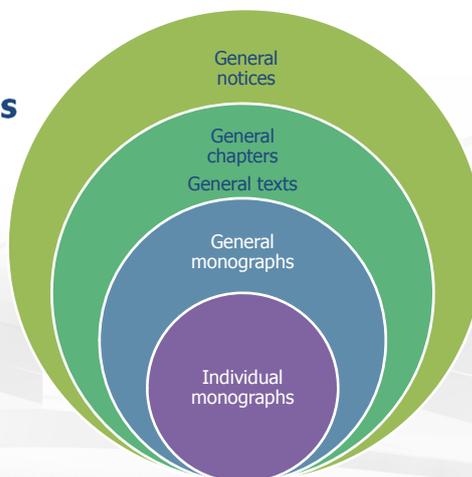
# Individual Monographs (HOM)

## General and Specific monographs

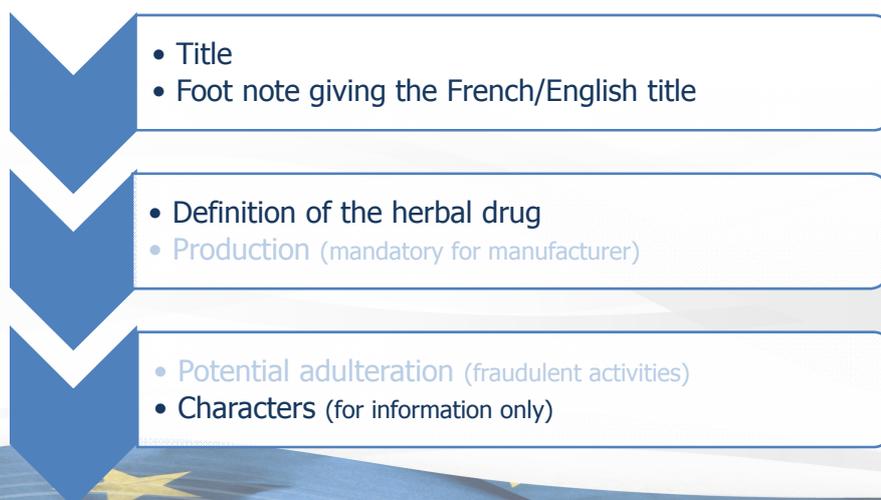
ALL APIs, excipients, finished products



COMPLEMENTARITY



# Individual Herbal monographs



## Individual herbal monographs

- Identification (macroscopic, microscopic, TLC)
- Dried herbal drug → illustration

- Tests (Foreign matter, Loss on drying, adulteration, etc)
- Assay

- Mother tincture part

## Individual Herbal monographs

- Definition of the **Mother tincture**
- Production (reference to methods of preparation see 2371)
- Characters (for information only)

- Identification (chemical reactions, chromatography)
- Tests (relative density, ethanol, methanol, dry residue)
- Assay

- Storage (information and recommendation, but competent authority may make it mandatory)
- Labelling

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**TITLES & foot note**

**DEFINITION:** defines the scope of the monograph for the herbal drug (a reference to an existing Ph Eur may replace this part), ie the state of the dried herbal drug (whole, fragmented, broken, peeled, dried), the complete scientific name of the plant, the part(s), harvesting time, stage of growth, etc (two different harvesting times may be described as for *Bryonia* (2838))

**IDENTIFICATION A, B, C**

**IGNATIA FOR HOMOEOPATHIC PREPARATIONS**

Strychnos ignatii ad praeparationes homoeopathicas

**DEFINITION**  
Dried, ripe seed of *Strychnos ignatii* F.J.Bergius.

**Content:** minimum 1.80 per cent for the sum of the contents of brucine (C<sub>14</sub>H<sub>22</sub>N<sub>2</sub>O<sub>4</sub>, M, 304.5) and strychnine (C<sub>15</sub>H<sub>24</sub>N<sub>2</sub>O<sub>2</sub>, M, 334.4), of which minimum 65 per cent consists of strychnine (dried drug).

**IDENTIFICATION**

**A.** The seed is grey, brown and dull, up to 3 cm long and 10–25 mm thick. It is irregular, with 3–5 distinct sides; one of these is usually wider, convex and glabrous; the others are angular and flattened and show the remains of testa hairs forming lighter zones in the depression. The stem granular texture resembles that of pebbles from a river bed; the hilum is found on the most rounded end and forms a small, light brown depression. The fracture shows a compact, semi-translucent, horny endosperm; the embryo is located in the centre and is about 10–15 mm long, with a foliaceous cotyledon.

**B. CAUTION:** take all necessary handling precautions when reducing this toxic herbal drug to a powder.

Wash the herbal drug rapidly in cold water, then expose to steam; once sufficiently softened, cut into thin slices and crush in a suitable apparatus. Allow to dry, finish reducing to a powder (710) (2.8.12) and pass through a covered sieve.

**Microscopic examination (2.8.23).** The powder is light brown. Examine under a microscope using chloral hydrate solution R. The powder shows the following diagnostic characters (Figure 2513-1): oil droplets (D); fragments of endosperm (B, C, E) consisting of thick-walled cells of various sizes, the smallest located at the periphery of the endosperm (C5) and the largest towards the centre of the seed (E1); a few fragments of the outer layer of the endosperm (surface view (I), transverse section (Ca)), with polygonal cells sometimes associated with the inner layer of the testa, composed of cells with indistinct walls (surface view (E), transverse section (Ca)); sclerified covering trichomes (A, K), sheared off, not enlarged at the base (Aa) and with walls composed of small, oblique, sclerified strips, tightly fused longitudinally (Ab, Ka); numerous fragments of strips (C, K) and rare rounded tips of covering trichomes (K).

**Ignatia for homeopathic preparations**

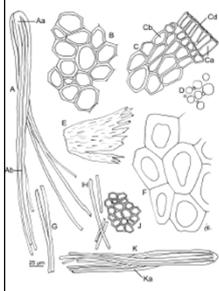


Figure 2513-1. - Illustration for identification test B of powdered herbal drug of Ignatia

**C. Thin-layer chromatography (2.2.27).**

**Test solution.** To 2.0 g of the powdered herbal drug (710) (2.8.12) add 20 mL of ethanol (70 per cent V/V) R, allow to macerate for 15 min at room temperature, with stirring, and centrifuge. Use the supernatant.

**Reference solution.** Dissolve 10 mg of brucine R and 10 mg of strychnine R in 10 mL of ethanol (50 per cent) R.

**Plate:** TLC silica gel plate R (5–40 µm) [or TLC silica gel plate R (2–10 µm)].

**Mobile phase:** concentrated ammonia R, methanol R, methylene chloride R (1:5:95 V/V/V); use the lower layer.

**Application:** 10 µL [or 5 µL] as bands.

**Development:** over a path of 15 cm [or 6 cm].

**Drying:** in air, then in an oven at 105–110 °C for 15 min; allow to cool.

**Detection:** spray with indoplatinate reagent R and examine immediately in daylight.

**Results:** see below the sequence of zones present in the chromatogram obtained with the reference solution and in the chromatogram obtained with the test solution.

| Top of the plate         |                            |
|--------------------------|----------------------------|
| strychnine a violet zone | A violet zone (strychnine) |
| brucine a blue zone      | A blue zone (brucine)      |
| Reference solution       | Test solution              |

Exemple: *Hydrastis canadensis* FHP (2500): section replaced by a reference to herbal drug monograph *Goldenseal rhizome* (1831).

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**TESTS:** the tests required by the general monograph *Herbal drugs for homeopathic preparations (2045)* are not repeated.

In certain cases, additional microscopic examinations and/or additional chemical reactions are carried out. This is done particularly to detect adulteration by drugs that have related morphological appearance but which come from totally different species to demonstrate for example that a given drug is free of toxic substances, such as alkaloids and cardiotonic steroids.

**ASSAY:** Where necessary, an assay is included. A chromatogram is shown for information in the knowledge database

**Reference standard** available from EDQM (see knowledge database)

**Reagent:** The reagents are described in general chapter 4.

**TESTS**

**CAUTION:** when the powdered herbal drug (710) (2.8.12) is used, take the necessary precautions as indicated under Identification B.

**Foreign matter (2.8.2):** maximum 1.0 per cent.

**Strychnos nux-vomica L.** The presence of flattened discoid seeds and the presence in the powdered herbal drug, examined under a microscope, of testa cells transformed into hairs, with a sclerified base and a lignified tip, bent at a right angle and with 7–10 ligulated ridges, and of numerous sclerified rods, indicate adulteration with *Strychnos nux-vomica* L.

**Loss on drying (2.2.32):** maximum 12.0 per cent, determined on 1.00 g of the powdered herbal drug (710) (2.8.12) by drying in an oven at 105 °C for 2 h.

**Total ash (2.4.16):** maximum 3.5 per cent.

**Alkaloids (2.8.16):** maximum 2 µg/kg (alatoxins B, C) and maximum 4 µg/kg (sum of alatoxins B, B<sub>1</sub>, C<sub>1</sub> and C<sub>2</sub>).

**ASSAY**

**Liquid chromatography (2.2.29).**

**Test solution.** To 1.000 g of the powdered herbal drug (710) (2.8.12) add 10.0 mL of ethanol (60 per cent V/V) R. Boil gently, with stirring, under a reflux condenser. After 30 min, cool and filter into a 20.0 mL volumetric flask. Wash the filter with ethanol (60 per cent V/V) R and dilute to 20.0 mL with the same solvent. Dilute 1.0 mL of the solution to 20.0 mL with mobile phase A.

**Reference solution.** Dissolve 10.0 mg of brucine CRS and 10.0 mg of strychnine CRS in 10.0 mL of ethanol (60 per cent V/V) R. Dilute to 10.0 mL with the same solvent. Dilute 1.0 mL of the solution to 20.0 mL with mobile phase A.

**Column:**

- size:  $l = 0.15$  m,  $\phi = 4.6$  mm;
- stationary phase: ethylene-bridged octadecylsilyl silica gel for chromatography (hybrid material) R (3.5 µm);
- temperature: 35 °C.

**Mobile phase:**

- mobile phase A: triethylamine R, acetonitrile for chromatography R, methanol R<sub>2</sub>, triethylhydroxymethylammonium chloride buffer solution pH 8.0 R (0.1:7.5:7.5:85 V/V/V/V);
- mobile phase B: triethylamine R, triethylhydroxymethylammonium chloride buffer solution pH 8.0 R, acetonitrile for chromatography R, methanol R<sub>2</sub> (0.1:15:42:42.5:42.5 V/V/V/V/V);

| Time (min) | Mobile phase A (per cent V/V) | Mobile phase B (per cent V/V) |
|------------|-------------------------------|-------------------------------|
| 0–5        | 100                           | 0                             |
| 5–25       | 100 + 70                      | 0 + 30                        |
| 25–30      | 70 + 65                       | 30 + 35                       |
| 30–31      | 65 + 0                        | 35 + 100                      |
| 31–32      | 0                             | 100                           |

**Flow rate:** 1.0 mL/min.

**Detection:** spectrophotometer at 260 nm.

**Elution order:** brucine, strychnine.

**System suitability:** reference solution:

- resolution: minimum 3.0 between the peaks due to brucine

Calculate the percentage contents of brucine and strychnine using the following expression:

$$A_1 \times m_2 \times p \times 2$$

$$A_2 \times m_1 \times p \times 2$$

**A<sub>1</sub>** = area of the peak due to brucine or strychnine in the chromatogram obtained with the test solution;

**A<sub>2</sub>** = area of the peak due to brucine or strychnine in the chromatogram obtained with the reference solution;

**m<sub>1</sub>** = mass of the mother tincture to be examined used to prepare the test solution, in grams;

**m<sub>2</sub>** = mass of brucine CRS or strychnine CRS used to prepare the reference solution, in grams;

**p** = assigned percentage content of brucine in brucine CRS or strychnine in strychnine CRS.

**Mother tincture**

The mother tincture complies with the requirements of the general monograph *Mother tinctures for homeopathic preparations (2026)*.

**DEFINITION**

The mother tincture is prepared from the dried, ripe seed of *Strychnos ignatii* F.J.Bergius.

**Content:** 0.18 per cent w/w to 0.36 per cent w/w for the sum of the contents of brucine (C<sub>14</sub>H<sub>22</sub>N<sub>2</sub>O<sub>4</sub>, M, 304.5) and strychnine (C<sub>15</sub>H<sub>24</sub>N<sub>2</sub>O<sub>2</sub>, M, 334.4), of which minimum 65 per cent is strychnine.

**PRODUCTION**

The mother tincture is prepared by the following methods prescribed in the general monograph *Methods of preparation of homeopathic stocks and potentisations (2071)*:

- method 1.1.A, using the powdered herbal drug (710) (2.8.12) and ethanol (70 per cent V/V) R;
- method 1.1.G, using the powdered herbal drug, ethanol (65 per cent V/V) R and a maceration time of 3–5 weeks.

**CHARACTER**

Appearance: brownish yellow liquid.

**IDENTIFICATION**

Thin-layer chromatography (2.2.27) as described in Identification test C for the herbal drug with the following modification.

**Test solution.** The mother tincture to be examined.

**TESTS**

**Relative density (2.2.5):** 0.890 to 0.904 (method 1.1.B).

**Ethanol (2.8.10):** 60 per cent V/V to 70 per cent V/V (method 1.1.10).

**Dry residue (2.8.16):** minimum 1.2 per cent.

**ASSAY**

**Liquid chromatography (2.2.29)** as described in the assay of the herbal drug with the following modification.

**Test solution.** Dilute 2.000 g of the mother tincture to be examined to 20.0 mL with ethanol (60 per cent V/V) R. Calculate the percentage contents of brucine and strychnine using the following expressions:

$$A_1 \times m_2 \times p$$

$$A_2 \times m_1 \times p \times 10$$

**MOTHER TINCTURE PART**

**DEFINITION:** defines the scope

**PRODUCTION**

Refer to General Monograph 2371 and includes the production methods used in the Member States

**Characters** (non mandatory): physical description

**IDENTIFICATION:** If a TLC test is used both for the control of adulterations and for identification, the method is described entirely under Tests with a cross-reference under Identification.

**TESTS:** the tests required by the general monograph *Mother tinctures for homeopathic preparations (2029)* are not repeated.

**ASSAY:** Where necessary, an assay is included.

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01/2017:2029

## MOTHER TINCTURES FOR HOMOEOPATHIC PREPARATIONS

### STORAGE

Protected from light. A maximum storage temperature may be specified.

### LABELLING

The label states:

- that the product is a mother tincture for homeopathic preparations (designated as 'TM' or 'Ø');
- the name of the raw material using the Latin title of the European Pharmacopoeia monograph where one exists;
- the method of preparation;
- the ethanol content or other solvent content, in per cent V/V, in the mother tincture;
- the ratio of raw material to mother tincture;
- where applicable, the storage conditions.

**Refer to the General Notices, the relevant General monograph. Additional information may be available in individual monographs.**

**Storage:** The information and recommendations given under the heading Storage do not constitute a pharmacopoeial requirement but the competent authority may specify particular storage conditions that must be met.

The articles described in the Pharmacopoeia are stored in such a way as to **prevent contamination and, as far as possible, deterioration**. Where special conditions of storage are recommended, including the type of container (see section 1.3. General chapters) and limits of temperature, they are stated in the monograph (**General Notices**).

**Labelling:** In general, labelling of medicines is subject to supranational and national regulation and to international agreements. The statements under the heading Labelling are not therefore comprehensive and, moreover, for the purposes of the Pharmacopoeia **only those statements that are necessary to demonstrate compliance or non-compliance with the monograph are mandatory**. Any other labelling statements are included as recommendations. When the term 'label' is used in the Pharmacopoeia, the labelling statements may appear on the container, the package, a leaflet accompanying the package, or a certificate of analysis accompanying the article, as decided by the competent authority (**General Notices**).

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## Example of skip-testing: test for adulteration

*Agaricus phalloides* for  
homeopathic preparations  
*Amanita phalloides* ad prep. homeopathicas  
Ph. Eur. Monograph 2290

## TESTS

Other *Amanita* species. Veil remnants on caps are typical for most *Amanita* species, but not for *A. phalloides*. Therefore all mushrooms with veil remnants on the cap have to be discarded. The presence of veil remnants (patches) on the cap indicates adulteration with *A. citrina* (Schaeff.) Pers. (whitish-yellow cap with whitish to brownish patches) or with *A. muscaria* (L.: Fr.) Lamarck, *A. caesarea* (Scop.: Fr.) Pers., or *A. rubescens* Pers. (orange to bright red cap with white patches); a brownish cap indicates adulteration with *A. pantherina* (DC.) Krombh.; a greenish-white cap and a white stipe with a labile annulus indicates adulteration with *A. verna* (Bull.: Fr.) Lamarck.

Ph. Eur. Texts are written for ALL the products on the market. The Competent Authorities are assessing the dossiers for marketing authorisation on a case by case basis.

When a manufacturer can prove to its Competent Authority that none of the other *Amanita* species can be mixed up with *Amanita phalloides* (Vaill. ex Fr.) Link. (for ex. because such species are not growing in the area of harvest), then the Competent Authority may allow the manufacturer to skip the adulteration test for this particular species.

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# HOM herbal monographs

## Recent developments

- Ph. Eur. 9th Edition *Agaricus phalloides* FHP (2290) (revision assay)  
*Ignatia* FHP (2513) & *Nux-vomica* FHP (2514)  
(minor revision to delete ref to sieve in MT production section)
- Ph. Eur. Suppl 9.1 *Homoeopathic preparations* (1038) (minor revision)
- Pharmeuropa 28.3 *Sanguinaria* FHP (2687) (new)
- Pharmeuropa 28.1 *Rhus toxicodendron* FHP (2519) (new)

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