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EUROPEAN REGULATORY STANDARDS FOR HERBAL VETERINARY MEDICINAL PRODUCT

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MedPlant4Vet – WG 1
Training course
December 2025

1. Veterinary Medicinal Product – Regulatory standards for a marketing authorization

Definition of a VMP

- any substance or combination of substances presented as having properties for treating or preventing disease in animals;
- any substance or combination of substances that may be used in, or administered to, animals with a view to restoring, correcting or modifying physiological functions by exerting a pharmacological, immunological or metabolic action;
- or to be used with a view of making a medical diagnosis;
- or to be used for euthanasia of animals



→ If a herbal product / plant extract / EO with therapeutic claim
→ = veterinary medicine

Legislation of herbal medicines

In Europe, **European Directive 2001/82/EC**: covers veterinary medicinal **products**, but only chemical, biological and homeopathic products.
Well-established use is mentioned in Article 13 bis;

⇒ **No dedicated European regulation for veterinary herbal medicines.**

- No specific scientific guidelines for these products, except for the quality part
- No specific committee on herbal products for the veterinary medicine

The life of a VMP



Research &
Development

Authorities



Manufacturing &
Marketing



Prescription &
Use

MRL
establishment

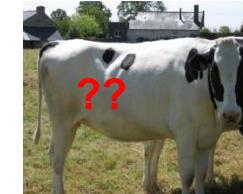


EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH

Marketing
authorisation



benefit/risk
balance



Consumption &
Control



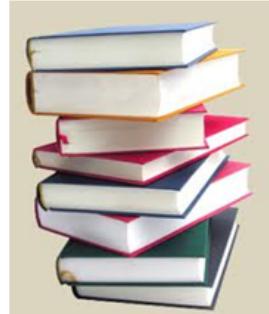
SCIENTIFIC ASSESSMENT

MANAGEMENT

DECISION

Benefits

Risks



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Assessment Report

Dossier of marketed autorisation of pharmaceutical VMP

Regulation (EU) 2019/6 and Commission delegated regulation (EU) 2021/805

Part 1

- Summary of the dossier

Part 2 : Quality documentation

- A - Product description
- B – Description of the manufacturing method
- C – Production and control of starting material
- D – Control tests carried out on isolated intermediates during the manufacturing process
- E – Control tests on the finished product
- F – Stability tests
- G – Other information

Dossier of marketed autorisation of pharmaceutical VMP

Regulation (EU) 2019/6 and Commission delegated regulation (EU) 2021/805

Part 3 : Safety documentation

- A – Safety tests
 - Toxicology
 - User safety
 - Environmental risk assessment
- B – Residues tests

Part 4 : Efficacy documentation

- A - Pre-clinical studies
 - Pharmacology
 - Resistance
 - Tolerance
- B – Clinical trials

2 - Consumer risk assessment

Maximum residue limit (MRL)

Dossier of marketed autorisation of pharmaceutical VMP

Regulation (EU) 2019/6 and Commission delegated regulation (EU) 2021/805

Part 3 : Safety documentation

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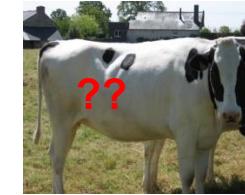


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Consumption &
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Maximum residue limit (MRL)

Food safety



Trade requirements



Regulation

European Regulations

- (EC) 470/2009 of 06/05/09
- (EU) 37/2010 of 22/12/09
- (EU) 2017/12 of 06/01/17 (content of the application)
- (EU) 2018/782 of 29/05/2018 (assessment & management)
- (EU) 2017/880 of 23/05/2017 (extrapolation)
- (EU) 2018/470 of 21/03/2018 (control & cascade)
- (EU) 2019/2090 of 19/06/2019 (control: non compliance)
- (EU) 2019/1871 of 07/11/2019 (control: reference value)

- (EE) 2019/6 of 11/12/2018



VICH Guidelines



- VICH GL 36 (microbiologic ADI)
- VICH GL 46 (nature of residue)
- VICH GL 47 (metabolisme comparatif)
- VICH GL 48 (marker residue)
- VICH GL 49 (analytical method)
- VICH GL 56 (honey)
- VICH GL 57 (aquatic species)

CVMP Guidelines

- EMA/CVMP/516817/2009 (out of scope)
- EMA/CVMP/SWP/591282/2021 (Biological substances)
- EMA/CVMP/SWP/90250/2010 (Biocide)
- EMA/CVMP/SWP/355698/2006 (Pharmacological ADI)
- EMEA/CVMP/SWP/345236/2020 (MRL Minor species)



- EMA/CVMP/SWP/735325/2012 (meat & offal withdrawal period)
- EMA/CVMP/473/98-Final (milk withdrawal period)
- EMA/CVMP/520191/2007-Rev.1 (injection site)
- EMA/CVMP/345237/2020 (article 23)
- EMEA/CVMP/SWP/32027/2022 (MUMS article 8)

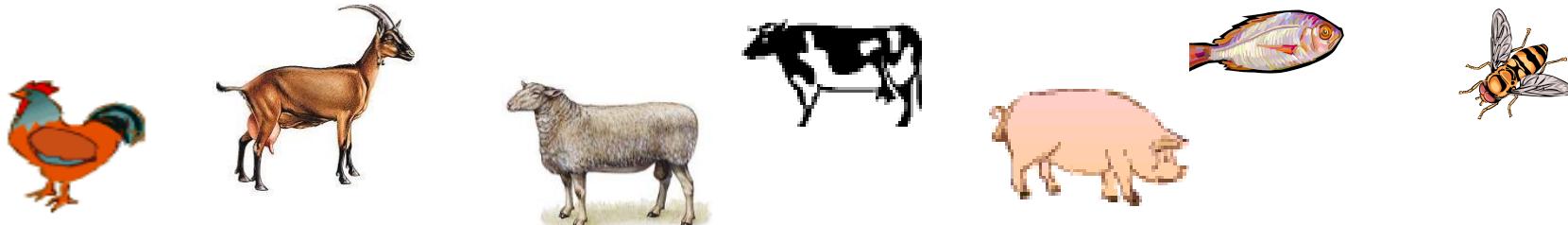
MRL - definitions

↳ **Residues** of pharmacologically active substances means all pharmacologically active substances, expressed in mg/kg or µg/kg on a fresh weight basis, whether active substances, excipients or degradation products, and their metabolites which remain in food obtained from animals.

↳ **Food producing animals** means animals bred, raised, kept, slaughtered or harvested for the purposes of producing food.

A **MRL** is established for

- a **pharmacologically active substance**
- per **animal species**
- and per **foodstuff** of animal origin (muscle, kidney, liver, fat, milk, egg, honey)



How is a MRL established?

Safety part

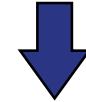
Toxicological, Pharmacological, Microbiological data



No observed effect level (mg/kg/day)



Uncertainty factors



Acceptable daily intake ($\mu\text{g/kg/day}$)



Residue part

Depletion study Analytical method



Marker residue
Total residue
MR/TR Ratios
Tissue distribution

MRL ($\mu\text{g/kg}$)

Management

Food basket
Minor species
Extrapolation
Others uses



Assessment of a MRL application



According to the data provided by the applicant

- ↳ The substance is included in the **table 1** or **table 2** of the European regulation (EU) 37/2010

Table 1: **allowed substances**

- MRL value ± restriction of use
- No MRL required ± restriction of use

Table 2: **prohibited substances**

- MRL cannot be established

- ↳ Or in the **out of scope list** for pharmacologically inactive substance

Table 1

Table 1: **allowed substances**

- MRL value ± restriction of use
- No MRL required ± restriction of use

Apramycin	Apramycin	Bovine	1 000 µg/kg 1 000 µg/kg 10 000 µg/kg 20 000 µg/kg	Muscle Fat Liver Kidney	Not for use in animals from which milk is produced for human consumption.	Anti-infectious agents/Antibiotics
	NOT APPLICABLE	Ovine, porcine, chicken, rabbit	No MRL required	NOT APPLICABLE	For oral use only. Not for use in animals from which milk or eggs are produced for human consumption.	

Table 1

Substance pharmacologiquement active	Résidu marqueur	Espèce animale	LMR	Denrées cibles	Autres disposition	Classification thérapeutique
Acide clavulanique	Acide clavulanique	Bovins, porcins	200 µg/kg 100 µg/kg 100 µg/kg 400 µg/kg	Foie Graisse muscle Rein	Pour les porcins la LMR graisse concerne peau et graisse dans des proportions naturelles	Médicaments anti-infectieux /antibiotiques
		Bovins	200 µg/kg	Lait		
<i>Angelicae radix aetheroleum</i>	Non applicable	Toutes les espèces productrices d'aliments	Aucune LMR requise	Non applicable	Néant	Néant
<i>Cimifiguae racemosae rhizoma</i>	Non applicable	Toutes les espèces productrices d'aliments	Aucune LMR requise	Non applicable	Ne pas utiliser chez les animaux produisant du lait destiné à la consommation humaine	Néant

Table 2

Table 2: **prohibited substances**

- MRL cannot be established



Pharmacologically active substances	MRL
<i>Aristolochia spp</i> et l'ensemble de ses préparations	No MRL can be established
Chloramphénicol	No MRL can be established
Chlorpromazine	No MRL can be established
Colchicine	No MRL can be established
Dapsone	No MRL can be established
Dimétridazole	No MRL can be established
Métronidazole	No MRL can be established
Nitrofuranes (furazolidone incluse)	No MRL can be established
Ronidazole	No MRL can be established

Web sites

- ↳ EMA : summary reports & European public MRL assessment report (EPMAR)
- ↳ Out of scope list

<http://www.ema.europa.eu>



- ↳ Consolidated version of tables 1 & 2 can be found at
<http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:02010R0037-20160324&from=DE>



- ↳ Anses-ANMV: MRL values
<http://www.anses.fr>

Rules of the veterinary drug practice: withdrawal period

- ↳ For food producing animal, a VMP can be use only if the substances are included in **table 1** of 37/2010 or in « out of scope » list.

=> **withdrawal periods** should be determined....

Withdrawal period

Definition according to the European regulation (EU) 2019/6:

Withdrawal period means the minimum period between the last administration of a veterinary medicinal product to an animal and the production of foodstuffs from that animal which under normal conditions of use is necessary to ensure that **such foodstuffs do not contain residues in quantities harmful to public health.**

A **withdrawal period** is established for

- A veterinary medicinal product
- per animal species
- and per foodstuf of animal origin (meat & offal, milk, egg, honey)

Withdrawal period

A withdrawal period is determined

- From a depletion study : meat & offal, milk, eggs and honey
- With a validated analytical method
- By statistical or alternative approach

3 - Cascade



Cascade use - Definitions



According to the articles 112 to 115 of the European regulation 2019/6

Use of VMP outside the terms of the marketing autorisation

Where there is no authorised VMP in a Member State for an indication concerning an animal species, **the veterinarian responsible may, under his or her direct personal responsibility** and in particular to avoid causing unacceptable suffering, exceptionally treat the animals concerned

Non-food-producing animal species

Food-producing terrestrial animal species

Food-producing aquatic species

Antibiotic => list of not allowed antibiotics

Horses => list of substances which are essential for the treatment of equine species

Fish => list of allowed substances

Bees => the veterinarian shall determine the appropriate withdrawal period

Article 112 : non-food-producing animal species

Veterinary medicinal product authorised in the relevant Member State or in another Member State for use
in the same species or another animal species
for the same indication or for another indication



Human medicinal product



Veterinary medicinal product prepared extemporaneously

Animals of the **equine species** shall be declared as not being intended for slaughter for human consumption in the single lifetime identification document.

Article 113 : food-producing terrestrial animal species

Veterinary medicinal product authorised in the relevant Member State or in another Member State for use
in the same species or another **food-producing terrestrial** animal species
for the same indication or for another indication



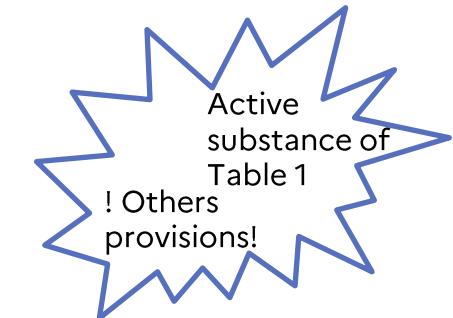
Veterinary medicinal product authorised in the relevant Member State for use
in a **non-food-producing** animal species
for the same indication



Human medicinal product



Veterinary medicinal product prepared extemporaneously



Article 114 : food-producing aquatic species

Veterinary medicinal product authorised in the relevant Member State or in another Member State for use
for the same indication or for another indication
in the same species or another **food-producing aquatic** species



Veterinary medicinal product authorised in the relevant Member State or in another Member State for use
in a **food-producing terrestrial animal** species



Human medicinal product



Veterinary medicinal product prepared extemporaneously



Article 115 : withdrawal periods



« Meat & offal » withdrawal period of food-producing mammals, poultry & farmed game birds

The longest « meat and offal » WP x 1.5

28 days if the medicinal product is not authorised for food-producing animals

1 day if the WP is zero days and is used in a different [taxonomic family](#)

« Milk » withdrawal period



The longest « milk » WP x 1.5

7 days if the medicinal product is not authorised for animals producing milk for human consumption

1 day if the WP is zero days

Article 115 : withdrawal periods



« Eggs » withdrawal period

The longest « eggs » WP x 1.5

10 days if the medicinal product is not authorised for animals producing eggs for human consumption



« Meat » withdrawal period for aquatic species

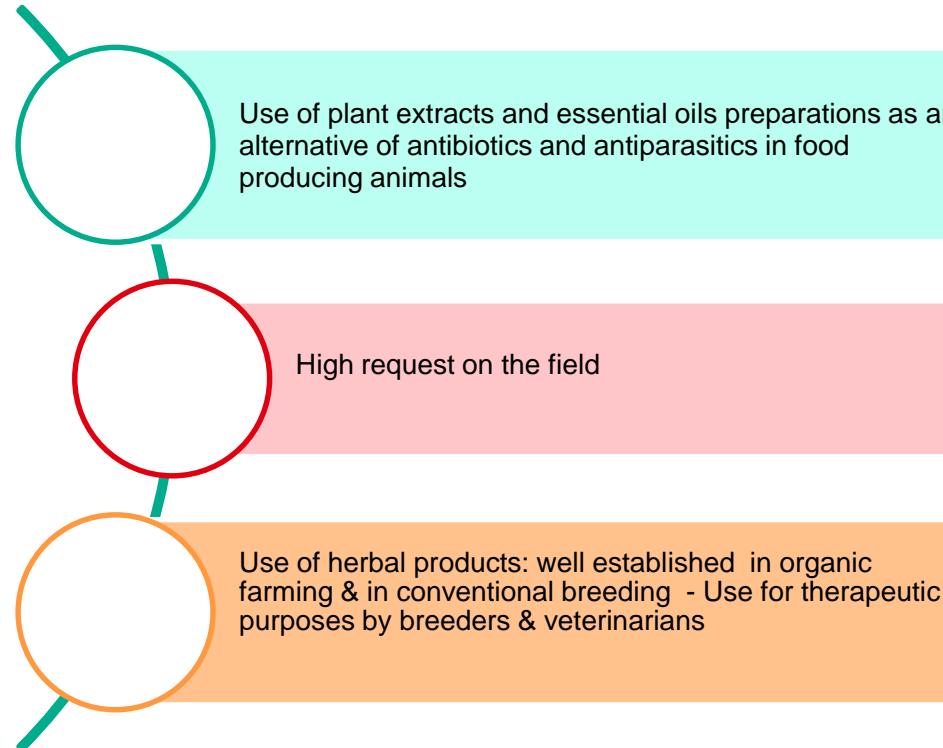
The longest WP for aquatic species x 1.5

The longest WP for food-producing terrestrial animal species x 50 (but < 500 degree.days
500 degree.days if medicinal product is not authorised for food-producing

25 degree.days if the highest WP is zero days

4 – Impacts on herbal veterinary medicinal products (HVMP)

Background of the use of plants in France



Definition of Veterinary Medicinal Product (VMP)

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- or to be used for euthanasia of animals



→ If a herbal product / plant extract / EO with therapeutic claim
→ = veterinary medicine

- Several homeopathic products have a marketing autorisation and include herbal drugs.
- Few « old » veterinary chemical medicines include herbal drugs:
For example the following products:
 - . **Phytophale** including Lespedeza capitata , Artichoke ,and Java tea (all dry extracts)
 - . **Apilife var** including Thymol, Eucalyptus (oil), Camphor, Levomenthol
 - . **Cothivet** including essential oils and tinctures

Cothivet: Solution for cutaneous application with Cupressis EO, Lavandulae EO, Rosmarini EO, Thymi EO, Carlina acaulis tincture, Centell asiatica tincture, Alfalfa tincture and Chestnut tincture.



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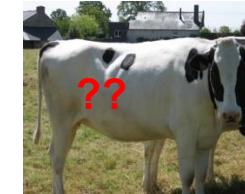


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Marketing
authorisation



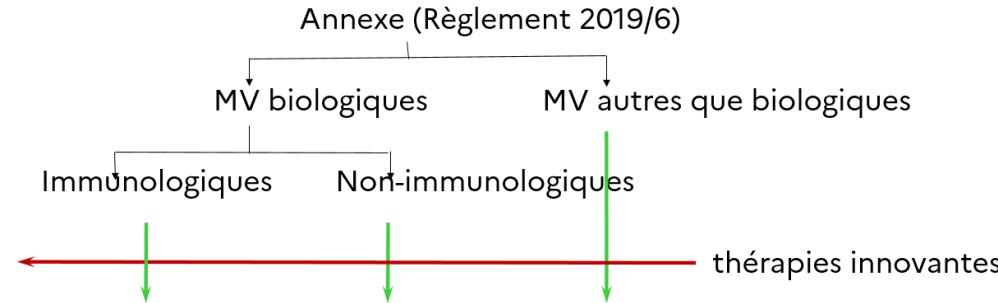
benefit/risk
balance



Consumption &
Control

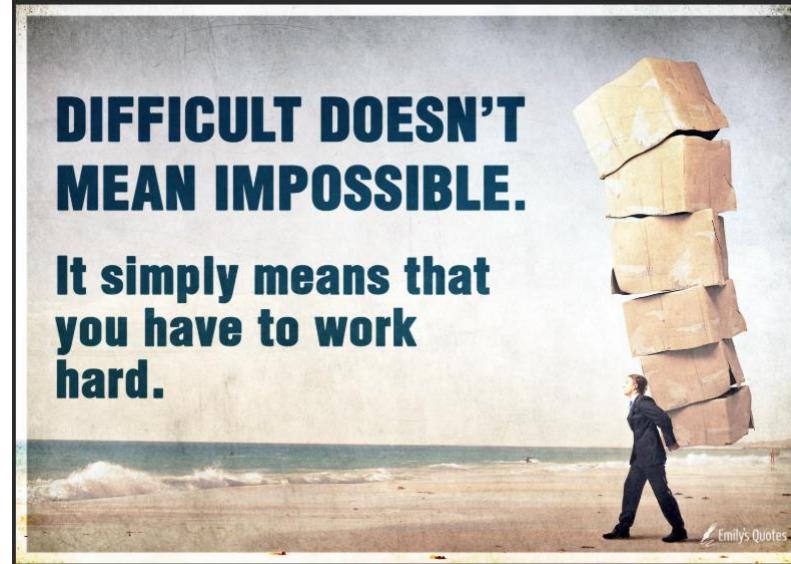


Regulation (EU) 2019/6 and Annex II - NEW



(43) 'novel therapy veterinary medicinal product' means:

- (a) a veterinary medicinal product specifically designed for gene therapy, regenerative medicine, tissue engineering, blood product therapy, phage therapy;
- (b) a veterinary medicinal product issued from nanotechnologies; or
- (c) any other therapy which is considered as a nascent field in veterinary medicine;



**DIFFICULT DOESN'T
MEAN IMPOSSIBLE.**

**It simply means that
you have to work
hard.**



Cascade use - Definitions

According to the articles 112 to 115 of the European regulation 2019/6

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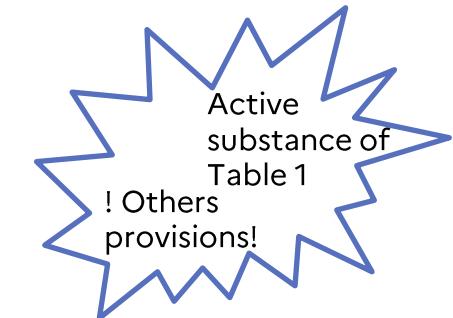
Veterinary medicinal product authorised in the relevant Member State for use
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Human medicinal product



Veterinary medicinal product prepared extemporaneously



Only 120 herbal substances of the 300 plants commonly used in food-producing animals are included in Table 1 of Regulation UE 37/2010, half of which are reserved for homeopathic or topical use

Une substance « plante » est inscrite dans le tableau 2 (usage interdit)
~~Aristolochia spp.~~ et l'ensemble de ses préparations

Aucune sur la liste « ~~biological substances~~ »

Les substances « plantes » inscrites sur la liste « out of scope » (usage autorisé) sont les suivantes

Amidon normalement trouvé dans l'alimentation et l'amidon de qualité alimentaire

~~Avena (oats)~~

~~Carboxyméthyle amidon sodique~~

Céréales

~~Coffea arabica~~

Huile d'olive

Huile de cacahouète = huile d'arachide

Huile de sésame

Huile de soja incluant huile de soja ~~époxidée~~

Huile de graine de coton

Huile de maïs = huile de blé

Huile de coco

Matériel fibreux d'origine végétale

Plantes légumineuses

~~Petroselinum crispum~~

Soja (moulu & décortiqué)

Sciure de pin, pour abeille

~~Squalane~~ comme composant d'un adjuvant

Vanilline

Les substances « plantes » inscrites au tableau 1 (usage autorisé) sont présentées ci-dessous par ordre alphabétique.

Ces données sont extraites du tableau 1 publié dans le RÈGLEMENT (UE) N° 37/2010 DE LA COMMISSION du 22 décembre 2009 relatif aux substances ~~pharmacologiquement~~ actives et à leur classification en ce qui concerne les limites maximales de résidus dans les aliments d'origine animale.

N = 125

21 huiles essentielles

41 substances pour usage homéopathique

124 avec « aucune LMR requise » dont 1 avec une DJA

1 avec des LMR chiffrées

Angelica radix aetheroleum	Eucalypti aetheroleum
Anisi aetheroleum	Foeniculi aetheroleum
Carvi aetheroleum	Lauri folii aetheroleum
Caryophylli aetheroleum	Lavandulae aetheroleum <i>Pour usage topique uniquement</i>
Cinnamoni cassiae aetheroleum	Melissae aetheroleum
Cinnamoni ceylanici aetheroleum	Menthae arvensis aetheroleum
Citri aetheroleum	Menthae piperitae aetheroleum
Citronellae aetheroleum	Myristicae aetheroleum <i>A n'utiliser que sur l'animal nouveau-né</i>
Coriandri aetheroleum	Rosmarini aetheroleum
Cupressi aetheroleum <i>Pour usage topique uniquement</i>	Terebinthinae aetheroleum rectificatum <i>Pour usage topique uniquement</i>
	Thymi aetheroleum

MRL

The maximum allowed concentration of residue in a food product obtained from an animal that has received a veterinary medicine

Defined for a given substance, species and tissue or commodity

Aim to ensure a safe level of exposure for the consumer

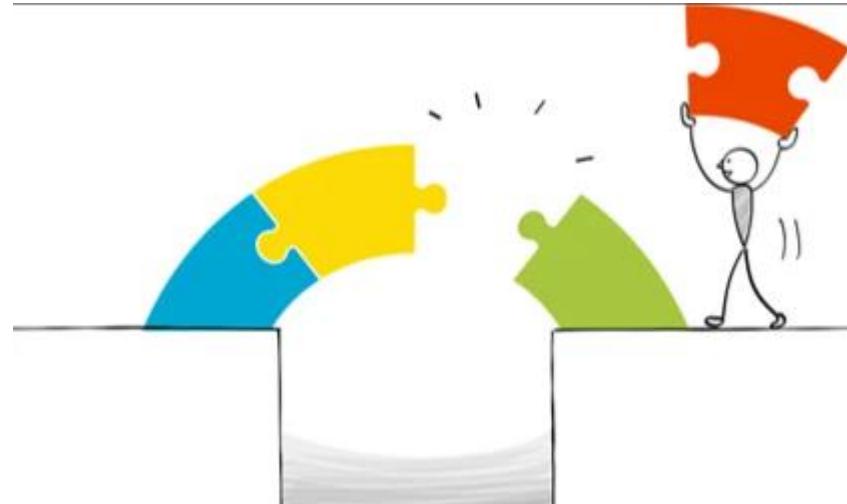
European regulation on MRL			
Substances classification			
Out of scope	Biological substances	Table 1	Table 2
Not concerned by MRL = No risk	Not needing an assessment	Authorised +/- restrictions on use and/or species	Prohibited

→Most EOs and plants currently used in VM

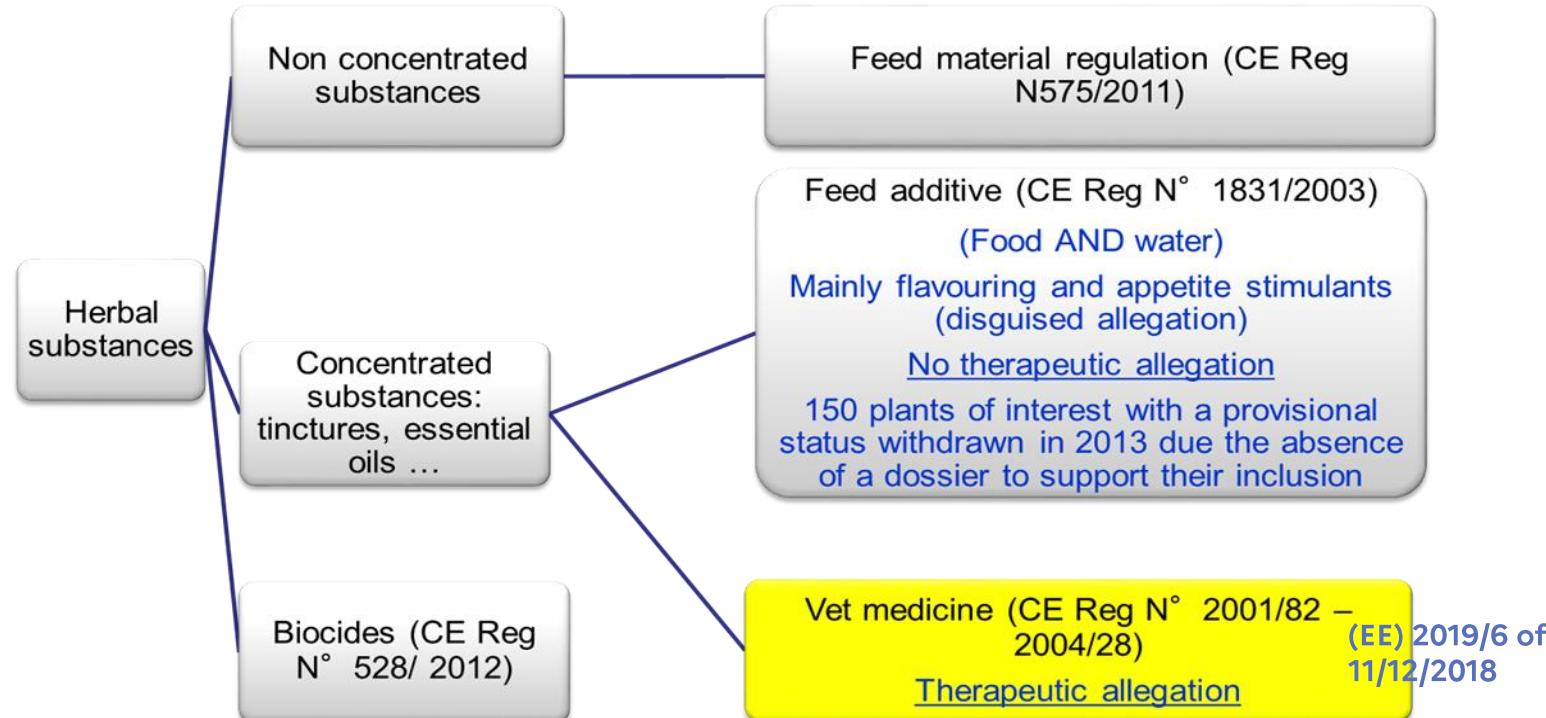
Not listed in Table 1 or in the out of scope and biological substances lists

Herbal specialities administered to food producing animals = complementary feedstuffs

Reason: MRL approach not adapted to the complex and variable composition of plants, plant preparation or EOs



Herbal substance regulatory status



Herbal products most frequently used

Essential oils



Plants



Complementary feed



Hygiene products



Example of herbal products available on the veterinary market



COMPOSITION: Allium Sativum, Oregano Oil, Microcrystalline Cellulose, Salts of Fatty Acids, Gelatin.

Features of the Maycillin Bolus:

- Zero milk withdrawal
- No paperwork required
- Two boluses per cow
- Reduces SCC in cows
- No risk of contamination
- For subclinical & clinical mastitis
- Feed additive
- Bolus gun sold separately



DESCRIPTION

Preparation for the care and prevention of udder in dairy cows.

Can be helpful with udder and teat health care and prevention

Properties

It prevents the teats from drying out by moisturizing and maintaining the proper pH of the skin
Possible effect on reducing the number of microorganisms on the teat surface
Strengthen the protective barrier of the teat canal by maintaining the integrity of the keratin litter
Protection of the udder gland from contamination

Additional description

Properly combined active extracts improve the functioning of the udder gland, deeply moisturize and soften it, maintain both long-term and continuous use does not cause any skin irritation. In addition, the presence of natural factors with milking and the next thanks to the protective layer, protects the udder gland from contamination.

Description of ingredients: water extract of propolis, herbal extracts, urea



Composition
Vinaigre de cidre, Macérés de rose rouge (*rosa gallica*), de thym blanc (*thymus vulgare*), de verge d'or (*solidago virga aurea*), origan (*origanum vulgare*).

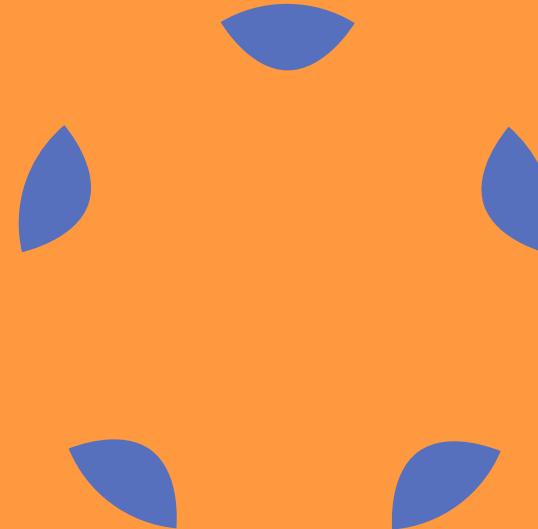
Composition
eucalyptol, cajeput EO, tea tree EO, nutmeg EO, cedar EO, camphor, menthol, laurel oil, colorant: chlorophylle



een one



5. CONCLUSION



Conclusion



- Herbal veterinary medicinal products are interesting **alternatives to limit/reduce the use of antibiotics and the risk of antimicrobial resistance**;
- Already **widely used** in France especially essential oils, by farmers on all target species and/or prescribed by vets on pets, at least in France and other EU MS and other countries,
- Used for treatment and/or prevention of disease, without MA, and MRL status in most of cases

Conclusion



- **No guarantee about quality, safety especially consumer safety and animal safety and efficacy**
- **Some risks to use plants or derived plant products even if natural substances:**
 - ✓ Known toxicity: for example for several essential oils as Basil oil,
 - ✓ Free access of the plant / essential oils on the field :
 - No guarantee of quality: no traceability, variability of the plants, ...
 - No use of raw material for pharmaceutical use: well-controlled

Conclusion



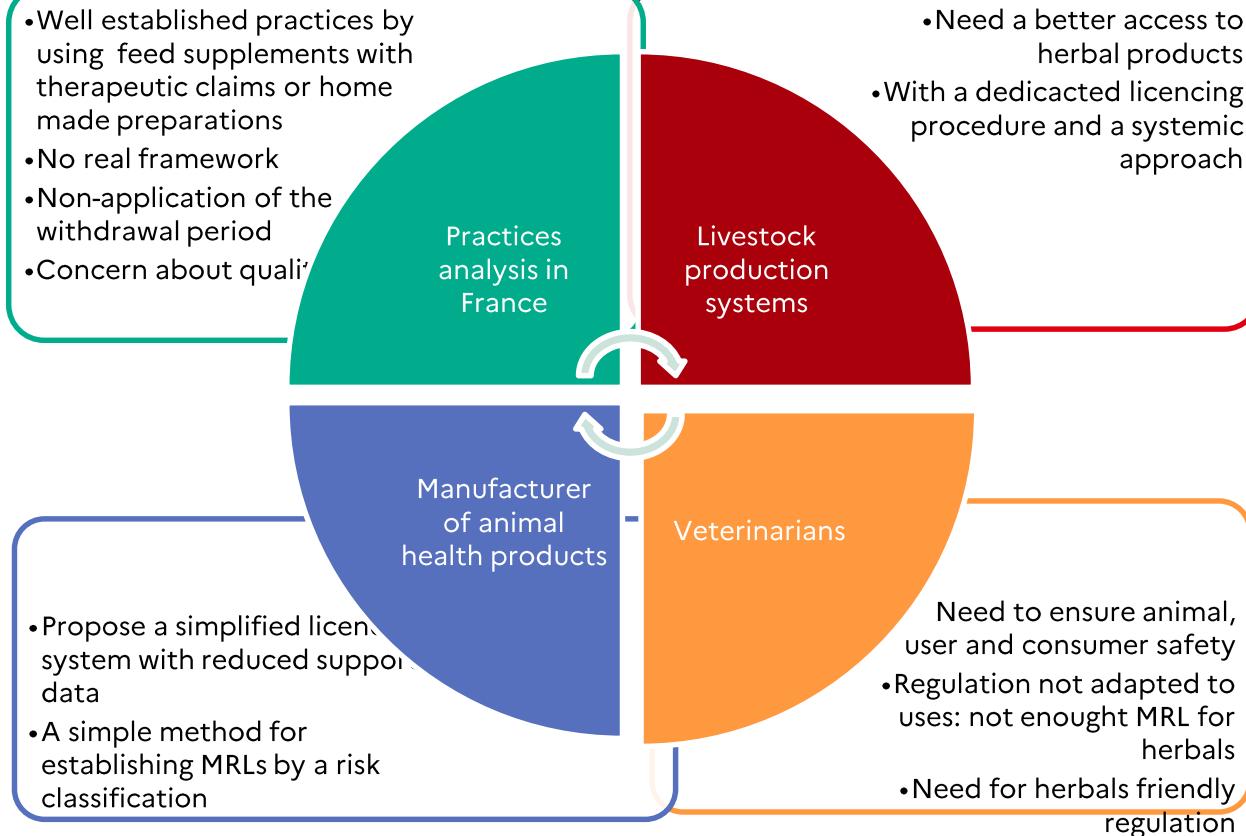
- EC encourages the use of phytotherapy for organic production but in fact there is almost no products or substances assessed and authorized neither in the feed additive list nor in our veterinary market
- The status of this type of products should be considered in a number of cases as veterinary medicines
- Many of plants and preparations used as vet medicines have no MRL status and **may represent a safety issue for the consumer.** (Eg: basil essential oils)
 - There is a need to determine which plants and preparations can be used with no consumer safety risk → Need for MRL dossiers

Conclusion



- To support this use, it is important to establish MRL status for numerous herbal substances
- The way to promote the MRL dossiers submission should always be discussed
- Always the need for an evolution of the european regulation on veterinary herbal medicines
- Furthermore, the quality of the herbal drugs and herbal preparations used on the field is also an other important point to monitor.

Needs and proposals



EU Regulation 2019/6... and now

Preamble 12:

There is **insufficient information** to date on traditional herbal products used to treat animals in order to allow the setting up of a **simplified system**. Therefore, the possibility of introducing such a simplified system should be examined by the Commission based on the information provided by the Member States on the use of such products on their territory.

Article 157:

Commission report on traditional herbal products used to treat animals

The Commission shall report to the European Parliament and to the Council by **29 January 2027**, on traditional herbal products used to treat animals in the Union. If appropriate, the Commission shall make a legislative proposal in order to introduce a **simplified system for registering traditional herbal products used to treat animals**.

The Member States shall provide information to the Commission on such traditional herbal products within their territories.

As objectives

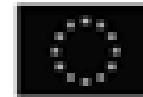
To meet the expectations of professionals and the general public in the use of phyto-aromatherapy.

Ensuring consumer safety

Provide a framework for practices in the field in line with current veterinary medicine

Evolve in the European context and to provide proposal to the European commission

Thank you for your attention



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the European Union

Promote the submission of MA applications for HVMP

Proposed amendments

Quality section	Safety section	Efficacy section
<ul style="list-style-type: none"> Possible choice of a tracer substance to ensure the quality and concentration range present in the plant drug and in the finished product. Possibility to provide a Pharmacopoeia certificate (as for chemical drug). 	<ul style="list-style-type: none"> Toxicological profile: possible reference to literature, in case of old or traditional use (except for genotoxicity: at least 1 in vitro test) User safety minimum requirements with focus on exposure Tolerance: a study with finished product and if necessary restriction(s) 	<ul style="list-style-type: none"> Possible reference to literature, for pharmacodynamic and pharmacokinetic effects (unless no data in any species or model) Clinical trials not required if well established use demonstrated

Promote the submission of MA applications for HVMP

Major concerns

Absence of MRLs for the majority of plants of interest for food-producing animals

Need for strict identification to characterise the plants or parts of plants used

Few scientific publications with a high level of evidence



Setting up a system to rapidly manage the 200 or 300 plants in traditional use in order to obtain MRL status

Human side

Two possibilities in Europe for herbal medicines:

- A simple registration if the herbal drug or the herbal preparation justifies a traditional use for 30 years of which at least 15 years in the European Community, proving its safety and making its efficacy plausible (European Directive 2004/24/EC);
- A marketing autorisation if the herbal drug or herbal preparation justifies of a well-established use of 10 years in the European Community (European Directive 2001/83/EC);

Human side

A [Committee on Herbal Medicinal Products \(HMPC\)](#) establishing EU standards to help the submission of dossiers:

Establishing [EU monographs](#) covering the therapeutic uses and safe conditions of well-established and/or traditional use for herbal substances and preparations :

[European Union herbal monograph on Valeriana officinalis L., aetheroleum](#)

Drafting a [EU list](#) of herbal substances, preparations and combinations for use in traditional herbal medicinal products;

Establishing [scientific guidelines](#) on herbal medicinal products on [quality, safety, and efficacy](#)