VALERIANÆ RHIZOMA.

VALERIAN RHIZOME.

B.P.Syn .- VALERIAN ROOT.

The dried erect rhizome and roots of Valoriana officinalis, collected in the autumn.

That from wild plants growing on dry soil is preferred. It owes its properties to a volatile Oil and a volatile Acid, the salts of which (Valerianates) are not prepared from the root, but synthetically from Amylic Alcohol.

The bulk of the Valerian root used in this country is of foreign growth, and should either be allowed or expressly prohibited in B.P.

Medicinal Properties.—It is a nervine stimulant and antispasmodic. Useful in hysteria, in functional nervous diseases associated with hysteria, and as an adjunct to tonics.

Official Preparation.-Tinetura Valeriana Ammoniata.

Not Official.—Tinctura Valerianæ, Tinctura Valerianæ Æthera, Oleum Valerianæ.

Foreign Pharmacopœias.-Official in all.

Description. — A short erect rhizome, entire or sliced, dark yellowish-brown externally, and giving off numerous slender brittle roots three or four inches (seven and a-half to ten centimetres) long, of the same colour as the rhizome; rhizome and roots whitish or yellowish internally.

Test.—The odour that is developed in the process of drying is strong, characteristic, and disagreeable; taste unpleasant, camphoraceous, and slightly bitter.

Preparation.

TINCTURA VALERIANÆ AMMONIATA. AMMONIATED TINCTURE OF

VALERIAN. (ALTERED.)

Valerian Rhizome, in No. 40 powder, 4 oz.; Oil of Nutmeg, 30 minims; Oil of Lemon, 20 minims; Solution of Ammonia, 2 fl. oz.; Alcohol (60 p.c.), 18 fl. oz. Mix the liquid ingredients, and prepare by the maceration process.

—(1 in 5).

Now 1 in 5 instead of 1 in 8; Alcohol (90 p.e.), Oils of Lemon and Nutmeg, and Solution of Ammonia used in place of Sal Volatile.

Dose .- to 1 fl. drm.

Foreign Pharmacopœias.—Official in Port, 1 in 5 by weight; U.S., 1 in 5; not in the others.

Not Official.

TINCTURA VALERIAN E.—Percolate 1 of Valerian Rhizome, in No. 40 powder, with sufficient Alcohol (60 p.c.) to produce 5 of Tincture.

Dose .- 1 to 2 fl. drm.

Foreign Pharmacopœias.—Official in Austr., Belg., Dan., Dutch, Fr., Ger., Hung., Ital., Jap., Mex., Norw., Port., Russ., Span., Swed., Swiss, and U.S., 1 in 5; Mex. and U.S. have also Fluid Extract; all by weight, except U.S.

TINCTURA VALERIANÆ ÆTHEREA.

Foreign Pharmacopœias.—Official in Belg., Dan., Ger., Hung., Norw., Span., Swed., and Swiss, Valerian 1, Spirit of Ether 5; Fr., Powdered Valerian 1.

Ether (sp. gr. '758) 5, by percolation; Mex. 1 and 5, Sp. Æther. (sp. gr. '76); Russ., Valerian 1, Alcohol (90°) 4, Ether ('728) 2; all by weight.

OLEUM VALERIANÆ.-A yellow volatile Oil; sp. gr. 930-960.

Foreign Pharmacopæias.—Official in Austr., Belg., Dutch, Hung., Port. and Swed.

Not Official.

VANILLA.

The fruit of Vanilla planifolia. The finest quality comes from Mexico, and large quantities also come from Bourbon. It owes its fragrance to Vanillin, C₈H₈O₃, the aldehyde of Methylprotocatechuic Acid, which on oxidation yields Vanillic Acid C₈H₈O₄. In some text-books they are stated to be the same substance, but this is not the case. Vanillic Acid is without odour and does not form a crystallisable compound with Sodium Bisulphite.

VAPORES.

These have been deleted from B.P. For those 'Not Official' see Index.

Not Official.

VERATRI VIRIDIS RHIZOMA.

GREEN HELLEBORE RHIZOME.

The rhizome and rootlets of Veratrum viride.

Collected in autumn in U.S. and Canada.

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The principal alkaloidal constituent (about half) is **Cevadine**, the same base as is found in Cevadilla; **Jervine** and **Pseudojervine**, in about equal proportions, constituting the remainder.—*P.J.* (3) ix. 986.

Medicinal Properties.—Sedative. Has been given in sthenic forms of fever, and to quiet spinal spasms; should be cautiously prescribed.

In puerperal eclampsia.—L. '98, i. 146.

Foreign Pharmacopœias.—Official in Mex., Eleboro Verde; U.S.; not in the others.

Preparation.

TINCTURA VERATRI VIRIDIS.—B.P. '85. Green Hellebore Rhizome, in No. 40 powder, 4; Rectified Spirit 20: macerate the Hellebore with 15 of the Spirit forty-eight hours, agitating occasionally, pack it in a percolator, let it drain, pour on the remainder of the Spirit; when it ceases to drop, press, filter, and add sufficient Rectified Spirit to make 20.

=(1 in 5).

Dose .- 5 to 20 minims.

The best menstruum is Alcohol (70 p. c.), and the best process continuous Percolation; the total alkaloid in root varies between ·16 and 1·2 p. c., and consequently in the tincture between ·032 and ·24 p. c.; Jervine constitutes on the average 30 p. c. of total alkaloid.—C.D. '92, ii. 651.

Foreign Pharmacopœias.—Official in U.S., American Hellebore, 4 in 10; also a Fluid Extract 1 in 1; not in the others.

643

until free from Chloride; dry the precipitate, first by imbibition with filtering paper, and then by the application of warmth.

Description.—Pale grey, amorphous, without odour, but, even in the most minute quantity powerfully irritating the nostrils, strongly and persistently bitter, and intensely acrid; insoluble in Water, soluble in diluted acids, leaving slight traces of an insoluble brown resinous matter.

Tests.—It dissolves in Nitric Acid, yielding a yellow solution. Warmed with Hydrochloric Acid, it dissolves with production of a blood-red colour lasting several days. Treated with fifty or sixty times its weight of Sulphuric Acid, the mixture turns yellow, subsequently acquires a yellowish-green fluorescence which becomes more distinct on the addition of more acid, and slowly changes to brightred, or, if warmed, violet-red. Heated with access of air, Veratrine melts to a yellow liquid, and at length burns away, leaving no appreciable residue (absence of mineral impurity).

Veratrine with Sulphuric Acid first goes yellow and then bright red, the addition of a drop of Syrup darkens the red and gives it a purple colour; by exposure to air the purple becomes blue. Sulphuric Acid with ? of its volume of Water is a better reagent.

Preparation.

UNGUENTUM VERATRINÆ. VERATRINE OINTMENT. (ALTERED.)

Veratrine, 10 grains; Oleic Acid, 40 grains; Lard, 450 grains. Rub the Veratrine with the Oleic Acid, and gently warm the mixture =(1 in 50).until dissolved; add the Lard; mix.

Now 1 in 50 instead of 1 in 63, Hard and Soft Paraffins and Olive Oil replaced by Oleie Acid and Lard.

Foreign Pharmacopæias.—Official in U.S., 1 in 25; Russ., 1 in 50; Port. (Pomada), 1 in 50; not in the others.

Not Official.

OLEATUM VERATRINÆ (U.S.).—Veratrine, 2; Oleic Acid, 98; rub together, and heat on a water-bath until dissolved.

Squibb suggests that this should be made 10 p.c. as more likely to give relief in neuralgia.—Ephemeris, p. 164.

Not Official.

VIBURNUM.

BLACK HAW.

The bark of Viburnum prunifolium.

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Distinction between Viburnum barks.—A.J.P. '95, 387; '96, 225.

Medicinal Properties.-Strongly recommended as a preventive in cases of threatened abortion; to control menorrhagia and metrorrhagia and in all kinds of pelvic inflammation; brilliant results in dysmenorrhea.—M.A. '95, 192; B.M.J. '95, ii. 1562; L. '95, ii. 1625.

References -B.M.J. '85, i. 987; '86, i. 489, 542, 641, 740, 973; '87, i. 1153; T.G. '95, 114.

Foreign Pharmacopæias .- Official in Mex.; U.S.; not in the others.

Preparation.

EXTRACTUM VIBURNI PRUNIFOLII FLUIDUM (U.S.).—Exhaust by percolation Viburnum (in No. 60 powder), 100 parts, with a mixture of Alcohol 3 and Water 1; reserve the first 85, and evaporate the remainder to a soft extract; dissolve this in the reserved portion, and add enough menstruum to measure 100.

VINA.

WINES.

Medicated wines are of very ancient date, and were admitted into our earliest Pharmacopœias. Two only remain as representatives of the old Pharmacopœias—Vinum Antimoniale and Vinum Ferri; the former was prepared by digesting 4 ounces of the Regulus of Antimony in powder with 3 pounds of 'White' Wine (Pharmacopœia Londinensis, 1655). The latter (Vinum Chalybeatum) was made with Rhenish Wine and Iron filings.

The following are the Wines of the British Pharmacopæia, the formulas for which will be found under the names of the drugs from which they are prepared:—

Dose.								Proportion of active gredient in the whole.	
10 to 30 minims .	VINUM	ANTIM	ONIA	LE .				. 2 grains in 1 fl. oz.	
As an emetic,									
	VINUM	AURAN	TII			×0.1		10 to 12 p.c. of Ethyl	
								Hydroxide by volume.	
10 to 30 minims .	VINUM	COLCH	ICI .					(dried Corm) 1 in 5.	
1 to 4 fl. drm.	VINUM	FERRI						made with Iron Wire.	
1 to 4 fl. drm.	VINUM	FERRI	CITR	ATIS				. 8 grains in 1 fl. oz.	
10 to 30 minims .						quid	Ext	tract) 1 in 20.	
as an expector	as an expectorant; as an emetic, 4 to 6 fl. drm.								
1 to 1 fl. oz	VINUM	QUINI	NÆ.	(Hy	droc	hlor	ide.)	. 1 grain in 1 fl. oz.	
100000000000000000000000000000000000000	VINUM	XERIC	UM.	. 10	p.0	. Et	hyl	Hydroxide by volume.	

VINUM XERICUM.

SHERRY.

A Spanish Wine.

Unless good sound Sherry is used, the preparations are apt to spoil by keeping.

For the amount of Alcohol in the several wines most commonly drunk in England, see p. 603.

Official Preparations.—Used in the preparation of Vinum Antimoniale, Vinum Colchici, Vinum Ferri, and Vinum Ipecacuanhae.

Not Official.—Vinum Xericum Detannatum.

Description.—Pale yellowish-brown, containing not less than 16 p.c. of Ethyl Hydroxide by volume.

Tests.—When a mixture of 50 c.c. of this wine and 50 c.c. of Water, acidulated with 5 c.c. of the Volumetric Solution of Sulphuric Acid is distilled, the distillate, after rejection of the first 10 c.c. shaken with Ether, the ethereal liquid separated and its

Ether removed by evaporation, the residue should not yield a violet coloration when mixed with Test-solution of Ferric Chloride (absence of Salicylic Acid).

For remarks on the above test see Vinum Aurantii.

Not Official.

VINUM XERICUM DETANNATUM (B.P.C.).—Sherry, 160; Gelatin, cut small, 2; macerate together for fourteen days, and decant.

Not Official.

VINCA MAJOR.

GREATER PERIWINKLE.

An infusion made of dried herb 2, boiling Water 20, and strained when cold, is powerfully astringent.

Dose.—A wineglassful drunk as frequently as required will arrest menorrhagia when other remedies have failed.

Foreign Pharmacopæias.-Official in Fr., Pervenche Grande; not in the

Preparation.

EXTRACTUM VINCE MAJORIS LIQUIDUM.—Made from the expressed juice of the plant of such strength that $1\frac{1}{2}$ fl. drm. are equal to 2 fl. oz. of the infusion.

Dose .- 1 to 2 fl. drm. in water.

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The Fluid Extract keeps well, and is the best to prescribe.

Not Official.

YERBA SANTA.

The leaves of Eriodictyon Californicum.

They contain 30 to 40 p.c. of a gum-resin.

Recommended in acute bronchitis. -L.M.R. '82, 47.

Pluid Extract, 1 in 1, made with strong Alcohol; dose, 10 to 60 minims.

Not Official.

ZINCUM.

ZINC.

Zn, eq. 64.91.

Zinc has been transferred to the Appendix of B.P. '98. A bluish-white metal, of peculiar taste and of a perceptible smell when rubbed; laminated, and with a crystalline fracture. Sp. gr. 7.1; fuses at 773° F.

It occurs native, as a Sulphide or as a Carbonate, and is separated from impurities by sublimation.

The Official tests for the presence of Zine will be found in the Appendix.

Foreign Pharmacopœias.-Official in Ital., Mex., Russ. and U.S.

Incompatibles of Zinc salts are—Alkalis and their Carbonates, Lime Water, astringent vegetable Infusions or Decoctions, and Milk.

Antidotes.—In case of poisoning with the salts of Zinc, Sodium Carbonate or Potassium Carbonate in large quantities dissolved in warm Water, Milk and Eggs freely, Tannic Acid or strong Tea, Laudanum, Linseed Meal Poultices to abdomen.