

BIBLIOGRAPHY OF MENTHA VIRIDIS LINNE
UNITED STATES PHARMACOPOEIA X

BY

MAX ALLEN Mc DANIEL

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A THESIS SUBMITTED FOR THE DEGREE OF
GRADUATE IN PHARMACY

UNIVERSITY OF WISCONSIN

1932

Fuchius, L.

1542

(Mentha Viridis)

Historia Stirpium, p. 290; Withering Botanical Arrang., 2 ed., v. 2, p. 597.

The original was not available.

Matthiolus, P.

1554

Mentha

Matthioli commentarii Dioscoridem, p. 248. (Withering, Bot. Arrang., 2 ed., v. 2, p. 275.)

Gives an account of the plant thought to be Spearmint, its properties and uses.

(Editor)

N. D.

(Spearmint)

Paint, oil and Drug Review, 46, p. 27. (U. S. Dispens. 20 ed., p. 694.)

The original was not available.

Dodonaeus, R.

1616

(Mentha Viridis)

Stirpium Historia, Pentades sex, etc., p. 95. (Willdenow, Linne's Species Plant., 4 ed., v. 3, p. 76; Withering, Bot. Arrang., 2 ed., v. 2, p. 597; Linne, Species Plant., 1 ed., v. 2, p. 804.)

The original was not available.

Ray, J.

1696

Synopsis, methodica stirpium britaunicarum, p. 233.
(Woodville, Medical Botany, 2 ed., v. 2, p. 338.)

The original was not available.

Linne, C. A.

1737

(Mentha Viridis)

Hortus, cliffortanus, p. 306. (Willdenow, Linne's Species
Plant., 4 ed., v. 3, p. 76.)

The original was not available.

Royen, A.

1740

(Mentha Viridis)

Flora leydensis Lugdabatana, p. 325. (Willdenow, Linne's
Species Plant., 4 ed., v. 3, p. 76; Linne's Species Plant.,
1 ed., v. 2, p. 804.)

The original was not available.

Dalibard, T. F.

1749

(Mentha Viridis)

Florae parisiense, p. 77. (Linne, C., Species Plant., 1 ed.,
v. 2, p. 804.)

The original was not available.

Mentha Viridis.

Herball, 2 ed., p. 680. (Woodville, Med. Bot., 2 ed., v. 2, p. 338; Hudson, Flor. Angl., p. 250; Withering, Bot. Arrang., V. 2., p. 597.)

Gives an illustration along with a description of the plant including the uses, synonyms, habitat, and the time at which it grows.

Theatrum, etc., p. 31. (Woodville, Medical Botany, 2 ed., v. 2, 338; Hudson, Flora Anglica, p. 250; Withering, Botanical Arrangement, 2 ed., v. 2, p. 597.)

The original was not available.

Mentha Viridis.

Pinax, p. 227. (Woodville, Med. Bot., 2 ed., v. 2, p. 338; Willdenow, Linne's Species Plant., 4 ed., v. 3, p. 76; Hudson Flora Anglica, p. 250; Linne, Species Plant., led., v. 2, p. 804.)

Gives a brief description of the plant.

(Mentha Viridis)

Historia Plantarum, v. 1. p. 532. (Woodville, Medical Botany, 2 ed., v. 2, p. 338.)

Gives synonyms, a description, uses, and some preparations into which it enters.

(Oeder)
Lange, J.

1761

Mentha Viridis L.

Flora, Canica, v. II, pl. MDCCCLXXVI; Lange, Icon. Plant. officinal. Scand., t. 180. (Stoph, Ind. Land., v. 4, p. 274.)

Gives a full page colored illustration of *Mentha Viridis*.

Scholler, F. A.

1761

(*Mentha Viridis*)

Flora Barb., n., 1011. (Willdenow, Linne's Species Plant., 4 ed., v. 3, p. 76.)

The original was not available.

Linne, C.

1762

Mentha Viridis.

Species Plant., 1 ed., v. 1, p. 804. (Griffith, Medical Botany, p. 503; Bently and Trimen, Medicinal Plant., v. 3, p. 202; Hudson, Flora Anglica, p. 250; Smith, English flora, v. 3, p. 75; Britton and Brown, Illustrated Flora, United States and Canada, 2 ed., v. 3, p. 149; Willdenow, Linne's Species Plant., 4 ed., v. 3, p. 76.)

Gives a brief, technical description of *Mentha Viridis* Linne, with earlier names and references.

Crantz, H. J.

1767

(*Mentha Viridis*)

Stipies Austriace, p. 328. (Willdenow, Linne's Species Plant., 4 ed., v. 3, p. 76.)

The original was not available.

Haller, A. V.

1768

, (Mentha Viridis)

Historiae Stirpium indigenarum helvetiae, no. 229. (Willdenow, Linne's Species Plant., 4 ed., v. 3, p. 76; Woodville, Med. Bot., 2 ed., v. 2, p. 338; Hudson, Flora Anglica, p. 250.)

The original was not available.

Crantz, H. J. N.

1769

Mentha Viridis.

Stirpium Auptiac., p; 328. (Willdenow, Linne's Species Plant., 4 ed., v. 3, p. 76.)

The original was not available.

Regnault, F.

1774

(Mentha Viridis Linne)

Bot., v. 1, p. 98. (Stoph, Ind. Land., v. 4, p. 274.)

The original was not available.

Scholler, F. A.

1775

, Mentha Viridis.

Flora barbiensis, no. 1011. (Willdenow, Linne's Species Plant., 4 ed., v. 3, p. 76.)

The original was not available.

Doerrien, Catharina H.

1777

(*Mentha Viridis*)

Verzeichniss u Beschreibung d sammt. in Furstl oramen-wass
auischen Landen, etc. (Willdenow, Linne's Species Plant.,
4 ed., v. 3, p. 76.)

The original was not available.

Withering, W.

1787

Mentha Viridis

Botanical Arrang., 2 ed., v. 2, p. 597. (Woodville, Medical
Botany, 2 ed., v. 2, p. 338.)

Gives a description, habitat, and discusses the uses of
Mentha Viridis.

Roth, A. W.

1788

(*Mentha Viridis*)

Tentamen Flora Germanica, v. 1, p. 247. (Willdenow, Linne's
Species Plant., 4 ed., v. 3, p. 76.)

The original was not available.

Roth, A. W.

1789 and 1788

(*Mentha Viridis*)

Tentamen Florae Germanicae, v. 1, p. 247 and v. 2, p. 6.
(Willdenow, Linne's Species Plant., 4 ed., v. 3, p. 76.)

The original was not available.

Roth, A. W.

1789

(*Mentha Viridis*)

Tentamen Flora Germanica, v. 2, p. 6. (Willdenow, Linne's Species Plant., 4 ed., v.3, p. 76.)

The original was not available.

Hoffman, G. F.

1791

(*Mentha Viridis*)

Flora Germanica, p. 203. (Willdenow, Linne's Species Plant., 4 ed., v. 3, p. 75.)

The original was not available.

Hudson, W.

1798

Flora Anglica, p. 250. (Woodville, Med. Bot., 2 ed., v. 2, p. 338; Willdenow, Linne's Species Plant., 4 ed., v. 3, p. 76.)

Reports the part used in pharmacy, giving also the habitation in England, the description and synonyms of the plant.

Sole, W.

1798

Mentha Villosa Secunda

Mentha Brittanica, p. 11, t. 5. (Lindley, Flor. Med. p. 486; Bently and Trimen, Medicinal Plant., v. 3, p. 202; Stoph., Ind. Land., v. 4, p. 274; Smith, English Flora, v. 3, p. 75.)

Gives a description, habitat, and an illustration of *Mentha Viridis*.

Willdenow, C. W.

1800

Mentha Viridis Linne

Linne's Species Plant., 4 ed., v. 3, p. 76. (Coxe, Am. Dispens., 9 ed., p. 226; Smith, English Flora, v. 3, p. 75.)

Gives a list of scientific synonyms for *Mentha Viridis* Linne with references.

Coxe, J. R.

1806

Mentha Viridis

Am. Dispens., 1 ed., p. 435; *ibid.*, 4 ed., p. 349; *ibid.*, 6 ed., p. 389; *ibid.*, 7 ed., p. 401; *ibid.*, 8 ed., p. 417; *ibid.*, 9 ed., p. 459.

Gives a description of the plant, its botanical relationship, uses and official preparations.

St. Hilaire, J.

1809

(*Mentha Viridis* Linne)

Plantarum Francaise, v. 3, t. 31. (Stoph., Ind. Land., v. 4, p. 274.)

The original was not available.

Woodville, W.

1810

Mentha Viridis Spearmint

Medical Botany, 2 ed., v. 2, p. 338

Gives the synonyms, botanical origin, description, a colored illustration, habitat, medicinal qualities and the official preparations of *Mentha Viridis*.

Thacher, J.

1810

Mentha Viridis

New Am. Dispens., 1 ed., p. 166; *ibid.*, 2 ed., p. 270; *ibid.*,
4 ed., p. 285.

Gives a description of the plant, its habitat, and
its uses.

Sowerby, J. P. and Smith, J. E.

1812

(*Mentha Viridis* Linne)

English Botany, v. 4, t. 2424. (Stoph., Ind. Land., v. 4,
p. 274.)

The original was not available.

Waller, A.

1822

(*Mentha Viridis* Linne)

New British Domestic Herbal, t. 23. (Stoph., Ind. Land., v. 4,
p. 274.)

The original was not available.

Bigelow, J.

1822

Mentha Viridis

Materia Medica, 1 ed., p. 258.

Gives its habitat, properties, and relationship to
peppermint.

Smith, J. E.

1823

Mentha Viridis

Spearmint

English Flora, v. 3, p. 75. (Bentley and Trimen, Medicinal Plants, v. 3, p. 202.)

Gives a description, and habitat of *Mentha Viridis*.

"An American Physician"

1827

Mentha Viridis

Eslectic Disp., 1 ed., p. 210.

Gives its synonyms, qualities, medical properties and uses, habitat, and official preparations.

Nees, V. Esenbeck, T. F.

1828

Mentha Viridis Linne

Plantae Officinales, v. 1, t. 166. (Stoph., Ind. Land., v. 4, p. 274.)

Gives an illustration along with a description of the plant.

Spratt, G.

1829

(*Mentha Viridis* Linne)

Flora Medica, v. 1, 163. (Stoph. Ind. Land., v. 4, p. 274.)

The original was not available.

Hayne, F. G.

1830

Mentha Viridis Linne

Getreul Darot. Arzn. Gewachse, v. 2, t. 2424. (Stoph, Ind. Land., v. 4, p. 274.)

Gives a full page, colored illustration of *Mentha Viridis*, with scientific synonyms, references, description, distribution, anatomy, and explanation of the plate.

Nees, V. Esenbeck, T. F. and Ehermaier, C.

1831

Mentha Viridis L.

Handbuch Botanik L., 539

Gives a description and the habitat of *Mentha Viridis*.

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Bentham, G.

1832

Mentha Viridis Linne

Lobiatarum, p. 173. (Lindley, Flora Medica, p. 486.)

Gives a description and the habitat of *Mentha Viridis* with references.

Wood, G. B. and Backe, F.

1834

Mentha Viridis

U. S. Dispens., 2 ed., p. 430; *ibid.*, 3 ed., p. 421; *ibid.*, 4 ed., p. 434; *ibid.*, 5 ed., p. 458; *ibid.*, 6 ed., p. 458; *ibid.*, 7 ed., p. 458; *ibid.*, 9 ed., p. 458; *ibid.*, 10 ed., p. 476; *ibid.*, 11 ed., p. 498; *ibid.* 12 ed., p. 546; *ibid.*, 13 ed., p. 560; *ibid.*, 14 ed., p. 585-6; *ibid.*, 15 ed., p. 940; *ibid.*, 16 ed., p. 950; *ibid.*, 17 ed., p. 867; *ibid.*, 18 ed., p. 780; *ibid.*, 19 ed., p. 690; *ibid.*, 20 ed., p. 694; *ibid.*, 21 ed., p.

Gives a description of the drug, habitat, medical properties, and official preparations.

Zenker, J. C.

1836

(*Mentha Viridis* Linne)

Flora Thuringen, v. 9. t. 1079. (Stoph, Ind. Land., v. 4, p. 274.)

The original was not available.

Dietrich, A.

1837

(*Mentha Viridis* Linne)

Flora regni Borussici, etc., t. 309. (Stoph, Ind. Land., V. 4, p. 274.)

The original was not available.

Burnett, G. T.

1834

(*Mentha Viridis*)

Stephenson and Churchill, Med. Bot., 2 ed., v. 1, pl. 45.
(Bentley and Trimen, Med. Plant., v. 3, p. 202; Stoph, Ind. Land., v. 4, p. 274.)

The original was not available.

Proctor, W. Jr.

1838

Observations on some of the Camphoriferous essential oils, and on the resins evolved from some of the oils by their reaction with sulphuric acid.

Am. Journ. Pharm., 10, p. 23

Gives the color of the resin obtained when the oil of *Mentha Viridis* is treated with sulphuric acid.

Lindley, J.

1838

Mentha Viridis

Flora Medica, 486. (Griffith, Medical Botany, 503; Bentley and Trimen, Medicinal Plants, v. 3, p. 202.)

Gives a description, the habitat of the plant, and the dose of the oil of *Mentha Viridis*.

Jackson, M. E.

1840

Mentha Viridis Linne

Pictorial Flora, fig. 871. (Stoph, Ind. Land., v. 4, p. 274.)

The original was not available.

Pereira, J.

1842

Spearmint

Mat. Med., 2 ed., v. 2, p. 510. (Bentley and Trimen, Medicinal Plants, v. 3, p. 202.)

Gives the therapeutic use, dose, and method of administration of *Mentha Viridis*.

Griffith, R. E.

1847

Mentha Viridis, Linne

Medical Botany, p. 503.

Gives the common and foreign names, a description of, habitat, and the medical properties of *Mentha Viridis*.

Strong, A.

1848

Mentha Viridis Linne

American Flora, v. 1, p. 129. (Stoph, Ind. Land., v. 4, p. 274)

The original was not available.

Lindley, J.

1849

Mentha Viridis Linne

Medical and Oeconomical Botany, 218. (Stoph, Ind. Land., v. 4, p. 274.)

Gives an illustration, habitat, description, uses and properties of *Mentha Viridis*.

Cassowe, F.

1850

(*Mentha Viridis* Linne)

Flora Medica-Farmaceutica, v. 5, t. 422. (Stoph, Ind. Land., v. 4, p. 274.)

The original was not available.

King, J. and Newton, R. S.

1852

Mentha Viridis

Eclec. Dispens., 1 ed., p. 261.

Gives its botanical relationship, history, properties and uses, and its official preparations.

(Editor)

1859

Mentha Viridis

Chem. and Drugg., 1, p. 245.

Gives a description of the plant, etc., habitat, and some uses of the plant.

King, J.

1864

Mentha Viridis (Grune Munze)

Am. Dispens., 6 ed., p. 599; *ibid.*, 8 ed., p. 524; *ibid.*, 10 ed., p. 524.

Gives its botanical relationship, description, history, properties and uses, and official preparations.

Bentham, J.

1865

Mentha Viridis Linne.

Handbook British Flora, Fig. 775, p. 647. (Stoph, Ind. Land., v. 4, p. 274.)

Gives an illustration with a description, and distribution of *Mentha Viridis* in Great Britain.

Baker, J. G. 1865
(*Mentha Viridis*)

Journ. Bot., p. 239. (Bentley and Trimen, Med. Plant., v. 3,
p. 202.)

The original was not available.

Berg, O. 1866
Mentha Viridis L.

Pharm. Bot., p. 268

Gives a description, habitat and names several varieties
of *Mentha Viridis*.

Syme, W. A. 1867
(*Mentha Viridis* Linne)

English Botany, v. 7, p. 7. (Bentley and Trimen, Med. Plants,
v. 3, p. 202; Stoph, Ind. Land., v. 4, p. 274.)

The original was not available.

Brownen, G. 1871
The Waters of the British Pharmacopoeia.

Yr. Bk. Brit. Pharm. Confr., 8, 351.

Mentions the spearmint water as official in the
British Pharmacopoeia.

Pollack, A. 1872

Spearmint

Bot. Ind., p. 117

Gives the common and Botanical names of the plant.

Fluckiger, F. A. and Hanbury, D. 1874

Herba Menthae Viridis Spearmint

Pharmacograph, 1 ed., p. 431.

Gives the botanical origin, history, description, extent of cultivation and production, chemical composition of the oil, uses, and substitutes of spearmint.

Draggendorff, G. 1874

The Detection of Oil of Turpentine in Essential oils by Means of Spirits of Wine.

Yr. Bk. Brit. Pharm. Conf., 11, 288.

Gives the solubility of oil of spearmint when it is pure and when adulterated with oil of Turpentine.

Stille, A. and Maisch, J. M. 1879

Mentha Viridis

Nat. Disp., 1 ed., p. 896; *ibid.*, 2 ed., p. 913; *ibid.*, 3 ed., p. 973; *ibid.*, 3 ed., p. 1035.

Gives its botanical relationship, origin, habitat, description, constituents, official preparations, and medical properties.

(Editor)

1879

Oils of Peppermint and Spearmint

New Rem., 8. p. 330

Gives the yield and price of the oil of *Mentha Viridis*.

Bentley, R. and Trimen, H.

1880

Mentha Viridis, Linne

Med. Plants, v. 3, p. 202. (Stoph, Ind. Land., v. 4, p. 274.)

Gives a colored illustration, a description, habitat, official parts and names, general characters, composition, medical properties and uses of Spearmint.

King, J. and Lloyd, J. U.

1881

Mentha Viridis

American Dispens., 15 ed., p. 524; *ibid.*, 16 ed., p. 524.

Gives its botanical relationship, history, properties and uses, description, and official preparations.

Fluckiger, F. A.

1881

Folia Menthae Crispae

Pharinak des Phlangeureich, 3 ed., v. 2, p. 687; *ibid.*, 2 ed., v. 3, 1891, p. 727.

Gives a description and distillation of *Mentha Viridis*.

(Editor)

1882

Spearmint prevents attack of Fleas.

Chem. and Drugg., 24, p. 308.

Oil of Spearmint is considered an insect repellent.

Edes, R. T.

1883

Mentha Viridis

Therapeutic Handbook of U. S. P., 1 ed., p. 196.

Tells of the relationship and resemblance of spearmint to peppermint.

Johnson, L.

1884

Mentha Viridis

Manual Medical Botany, N. American, P. 208. (Stoph, Ind. Land., v. 4, p. 274.)

Gives an illustration along with a description of the plant.

Odberg, O. and Wall, O. A.

1884

Mentha Viridis

Companion to U. S. P., 1 ed., p. 694.

Gives the botanical origin, habitat, description, constituents, properties, the parts used and the dose of the drug.

Schlechtendal, O. F. L., Land, J. and Schrenk, A. 1884
(*Mentha Viridis*)

Flora Deutschlands, 5 ed., 7, 1775. (Stoph, Ind. Land., v. 4,
p. 274.)

The original was not available.

Trimble, H. 1885

What is the chemical relation, if any, between the Oils
of Peppermint and Spearmint?

Am. Journ. Pharm., 57, p. 484. (Drugg. Cir., 29, p. 198;
Pharm. Rec., 5, p. 291; West Drugg., 7, p. 288; Yr. Bk. Brit.
Pharm. Conf., 23, p. 230)

Gives the history of Peppermint and Spearmint oils, and
discusses their composition in relation to each other.

Trimble, H. 1885

Report on the Volatile Oils of Peppermint and
Spearmint.

Proc. Am. Pharm. Assoc., 33, p. 501.

Gives the history, constituents of, and the results of
some experiments performed on the oil of *Mentha Viridis*.

Maisch, J. M. 1886

Materia Medica of the New Mexican Pharmacopoeia.

Am. Journ. Pharm., 58, p. 168

Gives the Mexican name for *Mentha Viridis*.

Gehe and Co. 1887

(Oil of Spearmint)

Handelsbericht, , p. (Chem. and Drugg., 31, p. 566.)

(Tells of a shortage of the supply of oil of Spearmint)

Duhelle, G. H. 1887

Superior Flavoring Extracts

Drugg. Circ., 31, p. 32

. Gives a formula for the preparation of the extract of Spearmint.

Schrenk, A. 1888

Differences Between *Mentha Piperita* and *Mentha Viridis*.

West Drugg., 10. p. 410

Gives the physical differences between the species *viridis* and *piperita* of the genus *Mentha*.

Kohler, E. and Pabst, G. 1891

Mentha Viridis var. *crispata* Schrader.

Med. Pflanz., v. 2, p. 571

Gives a description, distribution, time of flowering, name and history, where it is official, preparations, constituents, use, references to the herb and water, and a colored illustration

Masclef, A.

1893

Mentha Viridis L.

Atlas Plant. Franceue, t. 252. (Stoph, Ind. Land., v. 4, p. 274)

Gives a full page, colored illustration of *Mentha Viridis*.

Gilman, W. F.

1894

Terpenes of Spearmint Oil

Proc. Am. Pharm. Assoc., 42, p. 695. (West Drugg., 15, p. 323.)

Gives the Specific Gravity and composition of individual fractions when oil of Spearmint is subjected to fractional distillation.

Umney, J. C.

1895

Essential Oils in their Relation to the British Pharmacopoeia and Trade.

Pharm. Journ., 54, p. 1045. (Proc. Am. Pharm. Assoc., 43, 1039; Yr. Bk. Brit. Pharm. Conf., 32, p. 169.)

Gives data concerning a number of volatile oils including spearmint oil

Miller, J. and Whiting, G.

1895

Mentha Viridis

Wild Flowers N. E. States, p. 508. (Stoph, Ind. Land., v. 4, p. 275.)

The original was not available.

Kremers, E. and Schreiner, O.

1896

Application of the Carvoxime Method for the Quantitative Estimation of Carvoue to Adulterated Spearmint Oil.

Pharm. Rec., 14, p. 244. (Proc. Am. Pharm. Assoc., 45, p. 647)

Describes the principle of the Carvoxime - method for the Determination of Carvoue.

Schimmel and Co.

1896

Spearmint Oil

Report, April, 1896, p. 55

Remarks that the new crop of oil of spearmint is of the finest grade and that it is being used for scenting fine soaps.

Schimmel and Co.

1896

Spearmint Oil

Report, Oct. 1896, p. 69

Discusses the cultivation of spearmint and gives the characteristics of a sample distilled at their laboratory.

Jelliffe, S. E.

1897

A Study of Some of the Nutlets of the Official Labiates.

Drugg. Circ., 41, p. 35.

Gives the size and description of the nutlets of Mentha Viridis, and of species of the Labiates.

Schimmel and Co.

1897

Oil of Spearmint

Report, April, 1897, p. 645. (Proc. Am. Pharm. Assoc., 45, p. 645; Pharm. Rev., 15, p. 115.)

Records the yield and characteristics of an oil of Spearmint.

Kremers, E. and Schreiner, O.

1898

Test for Spearmint Oil

Drugg. Circ. 42, p. 296.

Discuss the adulteration of and tests for purity of Spearmint oil.

Britton, N. and Brown, O.

1898

Mentha Spicata

Illustrated Flora, N. States and Canada, 1 ed., v. 3, 119; 2 ed., v. 3, p. 149. (Stoph, Ind. Land., v. 4, p. 274.)

Gives an illustration accompanied by a description of the plant and its distribution in the area concerned.

Dragendorff, G.

1898

Mentha Viridis L.

Heilpflanzen Verschiedenein Volker und Zeiten, p. 583.

Gives only the habitat of the plant.

Schimmel and Co.

1898

Oil of Spearmint

Report, April, 1898, p. 46. (Proc. Am. Pharm. Assoc., 46, p. 973.)

Discuss the differences between the German, American, and Russian oil of Spearmint.

Lochman, C. L.

1898

Mentha Viridis

Photographes of Medicinal Plants, t. 174. (Stoph, Ind. Land., v. 4, p. 275.)

The original was not available.

Gildemeister, E. and Hoffman, Fr.

1899

Oil of Spearmint

Volatile oils, v. 2, p. 850; Engl. translation by Kremers, E., 2 ed., 191 E.

Discusses the botanical origin, production, method of cultivation, properties, and the composition of oils of spearmint.

Charabot, E. and Du Pont, J., Pillet, L.

1899

Essence de Menthe Verte.

Les Huiles Essentielles, p. 363

Gives the botanical source of oil of spearmint along with its constituents and their characteristics.

Schimmel and Co.

1899

Spearmint Oil

Report, Oct., 1899, p. 54

Comment on the poor quality of this oil.

Felter, H. W. and Lloyd, J. U.

1900

Mentha Viridis

Am. Dispens., 18 ed., v. 2, p. 1255

Gives the botanical source, illustration, history, chemical composition, description, action, medical uses, and dosage, specific indications and uses of spearmint.

Askinson, G. W.

1900

Mint

Perfumes and Their Preparations, p. 35

Discusses the varieties of mint with particular mention of the odor and habitat of *Mentha Viridis*.

Fiorini, E. and Paolucci, L.

1902

(*Mentha Viridis*)

Icones Flora Italica, p. 379. (Stoph, Ind. Land, v. 4, p. 275.)

The original was not available.

Heusler, F. and Pond, F. J.

1902

Carvoue

Chem. Of Terpener, p. 178

Mentions that carvoue, $C_{10}H_{14}O$, is obtained from oil of spearmint.

Schimmel and Co.

1902

Spearmint Oil

Report, April, 1902, p. 64

Discuss the price of American Spearmint Oil.

Schimmel and Co.

1902

Spearmint Oil

Report, Nov., 1902, p. 79

Comment on the price of the American Spearmint Oil.

Schimmel and Co.

1903

Spearmint Oil

Report, April, 1903, p. 73

Discusses the controlling market and remarks on the price.

Schimmel and Co. 1903
Spearmint Oil
Report, Oct., 1903, p. 64
Tells of the scarcity of the oil.

Schimmel and Co. 1904
Spearmint Oil
Report, Oct., 1904, p. 84
Gives information as to the price of the oil.

Schimmel and Co. 1905
Spearmint Oil
Report, April, 1905, p. 75
Gives information as to the scarcity of the oil.

Coste, U. 1906
(*Mentha Viridis*)
Flora Francaise, v. 3, p. 80. (Stoph, Ind. Land., v. 4, p. 275)
The original was not available.

Schimmel and Co.

1906

Spearmint Oil

Report, April, 1906, P. 63

Tells of the high price of the oil.

Schimmel and Co.

1906

Spearmint Oil

Report, Oct., 1906, p.73. (Proc. Am. Pharm. Assoc., 55, p. 882)

Records data pertaining to Russian Spearmint Oil.

Henderson, H. J.

1907

Oleum Mentha Viridis Ang.

Pharm. Journ., 79, p. 506. (Proc. Am. Pharm. Assoc., 56, p. 333)
(Yr. Bk. Brit. Pharm. Conf., 45, p. 186.)

Records the characteristics of a sample of English Oil
of Spearmint.

Schimmel and Co.

1907

Spearmint Oil

Report, April, 1907, p. 95

Tells that the oil resumes its normal price.

Schimmel and Co.

1907

Spearmint Oil

Report, Oct., 1907, p. 90

Reports that a successful harvest is expected and that the price of the oil is due to come down.

Perry, E. J.

1908

Spearmint Oil

Chemistry Essential Oils, 4 ed., v. 3, p. 294.

Gives the botanical source, properties and characters of the oil.

Schimmel and Co.

1908

Spearmint Oil; American

Report, April, 1908, p. 99

Gives information concerning the price and production of the oil.

Schimmel and Co.

1908

Spearmint Oil, American

Report, Nov., 1908, p. 114

Hints that the oil is approaching its normal value again.

Schimmel and Co.

1909

Hungarian Spearmint Oil

Report, April, 1909, p. 85. (Proc. Am. Pharm. Assoc., 57, p. 326; Yr. Bk. Brit. Pharm. Conf., 46, p. 56.)

Report on the high carvone content of the Hungarian Spearmint Oil.

Schimmel and Co.

1909

Spearmint Oil

Report, Oct., 1909, p. 113

Reports that new plantings have been laid down in Indiana and Michigan.

Schimmel and Co.

1910

Spearmint Oil

Report, April, 1910, p. 98

Report a probable increase in the price of the oil.

Schimmel and Co.

1910

- Spearmint Oil

Report, Oct., 1910, p. 121

Discusses the cultivation of the plant and the market price of the oil.

Elze, F.

1910

Über Krauzeminzol (Odorous constituent of oil of
Spear-mint)

(Proc. Am. Pharm. Assoc., 59, p. 404; Brit. and Col. Drugg.,
60, p. 273; Drugg. Circ., 55, p. 10; Pharm. Journ. 85, p. 787;
Chem. Ztg., 34, p. 1175; Yr. Bk. Brit. Pharm. Conf., 48, p.83.)

Mentions that the acetate of dihydro-cuminic alcohol
possesses the characteristic odor of spear-mint.

Schimmel and Co.

1911

Spear-mint Oil

Report, April, 1911, p. 706

Predict a rise in price of oil of Spear-mint.

Holmes, E. M.

1911

Oil of Spear-mint

Perfum and Ess. Oil Rec., 1, p. 197

Discusses the characteristics of German, American, and
Russian Spear-mint Oils and the botanical source of these oils.

(Editor)

1911

"Spear-mint" not a Trade-Mark for chewing gum.

Drugg. Circ., 55, p. 45

States that the word "Spear-mint" should not be used on
chewing gum wrappers as a Trade-Mark.

Henkel, Alice

1911

Mentha Spicata L.

U. S. Dep. Agric. Bur. Pl. Indust. Bull., no. 219, p. 29.
(Staph. Ind. Lond., p. 274.)

Gives an illustration of the plant, the official name, synonym, common names, habitat, description, and the prices and uses.

Schimmel and Co.

1911

Spearmint Oil (*Oleum Menthae Crispae*)

Report, April, 1911, p. 133

Gives a description and properties of the oil.

Schimmel and Co.

1911

Spearmint Oil

Report, Oct., 1911, p. 84

Discuss conditions which affect the yield of the oil.

Holmes, E. M.

1912

Plant Yielding Spearmint Oil

Yr. Bk. Brit. Pharm. Conf., 49, p. 263

Discusses briefly the plants yielding spearmint oil.

Cravey, C. A.

1912

Mentha Spicata

Harper's Guide Wild Flowers, p. 345. (Staph, Ind. Lond., v. 4, p. 274.)

Gives a full page illustration with a brief description of the plant.

Schimmel and Co.

1912

Spearmint Oil

Report, April, 1912, p. 117. (Yr. Bk. Am. Pharm. Assoc., 1, p. 344; Pharm. Era, 45, p. 309.)

Report the results of an examination of a sample of American spearmint oil.

Schimmel and Co.

1912

Spearmint Oil

Report, Oct., 1912, p. 103

Report that there is no probability of a reduction in the price of the oil.

Schimmel and Co.

1913

Spearmint Oil

Report, April, 1913, p. 96

Report that the price is still the same and will remain there as long as the demand is as great as it is.

Schimmel and Co.

1913

Spearmint Oil

Report, Oct., 1913, p. 99

Discuss the output, consumption, and amount of the plant under cultivation.

Kehler, L. F.

1913

Spearmint

Journ. Am. Pharm. Assoc., 2, p. 1106

Reports the amount of total ash yielded by the drug.

Remington, J. P.

1914

United States Pharmacopoeia
Ninth Revision

Abstract of Proposed Changes with New Standards and Descriptions.

Journ. Am. Pharm. Assoc. 3, p. 1108

Gives the proposed monograph for oil of spearmint.

(Editor)

1914

The Cultivation of Medicinal Plants, Spearmint

N. A. R. D. Journ., 20, p. 321

Discusses the yield, habitat, and gives a description of Spearmint.

Georgia; A.

1914

Mentha Spicata

Manual Weeds, T. 253. (Staph. Ind. Lond., v. 4, p. 274

Gives a description and illustration of the plant.

Schimmel and Co.

1914

Spearmint Oil

Report, April, 1914, p. 92

Due to the total consumption of the large yield the prices will stay as high as before. A reduction seems out of the question.

Youngken, H. W.

1914

Mentha Viridis

Pharm. Bot., 2 ed., p. 90

Gives the official name, the part used, and the botanical name of the drug.

Remington, J. P.

1914

United States Pharmacopoeia
Ninth Revision

Abstract of Proposed Changes with New Standards and Descriptions

Journ. Am. Pharm. Assoc., 3, p. 391. (Pharm. Era, 47, p. 262.)

Gives the proposed monograph for *Mentha Viridis*.

(Editor)

1915

The Cultivation of Medicinal Plants

N. A. R. D. Journ., 21, p. 507. (Drugg. Circ., 60, p. 27; Am. Journ. Pharm., 88, p. 37.)

Gives the habitat, method of cultivation and fertilization of Spearmint in a discussion of peppermint and spearmint as commercial crops.

(Editor)

1915

Peppermint and Spearmint

Am. Perf., 10, p. 304

Discusses the cultivation of spearmint in the United States.

Gussow, H. T.

1915

Mentha Spicata

Dominion Exp. Farms., Ottawa Bull., no. 23, Ser. II, p. 27. (Staph. Ind Lond., v. 4, p. 274.)

Gives a description and a full page illustration of the plant.

Schimmel and Co.

1915

Spearmint Oil

Report, Oct., 1915, p. 36

Report that the oil has dropped considerably in price.

Schimmel and Co.

1916

Oil of Spearmint

Report, April and Oct., 1916, p. 51

Report on the annual production of spearmint oil in the United States.

(Editor)

1916

Peppermint and Spearmint as Commercial Crops.

Drugg. Circ. 60, p. 22

Gives the habitat, total production, yield of oil per acre of Spearmint and also a description of the distilling equipment.

Schimmel and Co.

1917

Spearmint Oil (Oleum Menthae Crispae)

Report, April and Oct., 1917, p. 85

Gives a description of and records the properties of the oil.

Schimmel and Co.

1918

Oil of Spearmint (Oleum Menthae Viridis)

Report, April and Oct., 1918, p. 58

Gives a description and properties of the oil.

Robak, F.

1918

Influence of Season's Time of Harvesting, Drying and Freezing of *Mentha Viridis* Oil.

Jour. Ind. Eng. Chem., 10, 275. (Yr. Bk. Brit. Pharm. Conf., 55, p. 74; Chem. and Drugg., 91, p. 15; Perfum. and Essent. Oils Rec., 9, p. 126.)

Discusses the effects of seasons in the oil of spearmint and also gives some of its characteristics.

(Editor)

1918

Yield of Oil of Spearmint

Pharm. Era., 51, p. 251

Gives the yield of oil from various parts of the plant.

Britton, J.

1918

Mentha Spicata

Flora Bermuda, 329. (Staph, Ind. Lond., v. 4, p. 274.)

Gives an illustration with a description and distribution of Spearmint in Bermuda.

Power, B.

1919

The Odorous Principles of Plants.

Chem. and Drugg., 91, p. 1006.

Gives the known constituents of oil of Spearmint.

Fitch, W. H. and Smith, W. G.

1919

(*Mentha Viridis*)

Illustrated British Flora, 4 ed., Iss. 2, fig. 782. (Staph,
Ind. Lond., v. 4, p. 275.)

The original was not available.

Riley, R.

1919

Mentha Viridis

Am. Journ. Pharm., 91, p. 98

Gives synonyms, habitat, and the part of *Mentha Viridis*
that is used.

Schimmel and Co.

1921

Spearmint Oil

Report, April, 1921, p. 85

Report on the constituents and properties of the oil.

(Editor)

1924

The Mints

Chem. and Drugg., 100, p. 724

Gives a description and a brief summary of the consti-
tuents of *Mentha Viridis*.

Holmes, E. M.

1925

The Odours and Flavors of Mints

Perfum. and Ess. Oils Rec., 16, p. 147

Gives a description of *Mentha Viridis*, and discusses the constituents to which to odour is due.

Finnemore, H.

1926

Oil of Spearmint

Essential Oils, p. 793. (Parry, Chemistry of Essential Oils, 4 ed., v. 1. p. 237.)

Gives the botanical source of the oil, discusses the method of cultivation of the plant, records the physical characters of the oil and summarizes the chemistry of the oil.

Clark, R. H.

1927

Mint Oils

Chem. Abs., 21, p. 2532. (Yr. Bk. Am. Pharm. Assoc., 16, p. 466.)

Gives a very brief description of British Columbian Spearmint Oil.

(Staph, O.)

1930

Mentha - Spicata - Viridis

Index Londinensis, v. 4, p. 274-5.

Gives references for illustration of *Mentha Spicata* and *Mentha Viridis*.

(Editor)

1930

Spearmint Oil

Chem. and Drugg., 113, p. 181

Gives the essential difference between American, English, Austrian, and Russian Spearmint oils also the chief constituents of the American Variety.

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1852.
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1864; 8 ed., 1872; 10 ed., 1875; 15 ed., 1881; 16 ed.,
1889; 18 ed., 1900.
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1892-1924.
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v. 1-6; 1906-1911.
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- Drugg(ist's) Circ(ular), v. 1-73; 1857-1929.
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b. 1-18; 1912-1929.
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v. 1-53; 1879-1931.
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Proc(eedings of the) Am(eric)an Pharm(aceutical) Ass(ociation),
v. 1-59; 1851-1911.

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v. 1-17; 1912-1928.

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v. 1-67; 1864-1930.

United States Pharmacopoeia (O-X)
(1820 - 1920)

and

National Formulary (I-V)
(1886 - 1926)

History

of

Mentha Viridis

U. S. P. 1820, P.p. 40.

Mentha Viridis.
Spearmint

Mentha Viridis, W.III, 76./
Herba. The herb./

U. S. P. 1830 (Phil.), P.p. 16.

Mentha Viridis
Spearmint

Mentha Viridis, W.III, 76./
Herba. The herb./

U. S. P. 1830 (N. Y.). p. 45.

Mentha Viridis
Spearmint

Mentha Viridis

Prop. odour, strong, fragrant; taste, warm, aromatic,
pungent./

Me. Oper. Stomachic, carminative./

U. S. P. 1840 P.p. 27.

Mentha Viridis.

Spearmint

The herb of Mentha Viridis.

U. S. P. 1850, P.p. 30

Mentha Viridis

Spearmint

The herb of Mentha Viridis.

U. S. P. 1860, P. p. 37.

Mentha Viridis

Spearmint

The herb of *Mentha Viridis*.

U. S. P. 1870, P. p. 38.

Mentha Viridis

Spearmint

The leaves and tops of *Mentha Viridis*.

U. S. P. 1880, p. 221

Mentha Viridis

Spearmint

The leaves and tops of *Mentha Viridis*, Linne (Nat. Ord.,
Labiatae.)

Leaves about two inches (5 centimeters) long, sub -
sessile, laure-ovate, acute, / serrate, glandular, nearly
smooth; branches quadrangular, mostly light green; / flowers in
terminal, interrupted, narrow, acute spikes, with a tubular,
sharply fine- / toothed calyx, a light purplish, four-lobed
carolla, and four rather long stamens; / aromatic and pungent.

Preparation: Spiritus Menthae Viridis.

U. S. P. 1890, p. 257.

Mentha Viridis

Spearmint

The leaves and tops of Mentha Viridis Linne (Nat. Ord. Labiatae.)

Leaves about 5 cm. long, subsessile, lance-ovate, acute, serrate, glandular, /nearly smooth; branches quadrangular, mostly light green; flowers in /terminal, interrupted, marrow, acute spikes, with a tubular, sharply fine toothed / calyx, a light purplish, four-lobed carolla, and four rather long stamens; odor / aromatic; taste pungent.

Preparation: Spiritus Menthae Viridis.

U. S. P. 1900, p. 289.

Mentha Viridis

Spearmint

The dried leaves and flowering tops of Mentha Spicata Linne (Mentha/ Viridis Linne) (Fom. Labiatae.)

Closely resembling Peppermint (see Mentha Piperita), but the leaves usually/ sessile and lanceolate, the flower-spikes usually slender, interrupted, cylindri-/ cal, or crowded, conical at the apex, 5 to 8 Mm. thick, becoming when in fruit/ 5 to 10 Cm. long; the stamens rather long; odor and taste resembling, but dis-/ tinguishable from those of Peppermint.

Average dose:-- 4 Gm. (60 grains.)

U. S. P. 1910, p. 271.

Mentha Viridis

Spearmint

Menth. Vir.

The dried leaves and flowering tops of *Mentha Spicata* Linne (*Mentha/ Viridis* Linne) (Fom. Labiatae.)

Leaves more or less crumpled and mixed with a large proportion of the light/ brown or purplish-colored stems, occasionally with their characteristics opposite/ branches; stems distinctly quadranular, from 1 to 3 mm. in width, nearly gla-/ brons; leaves when entire ovate-lanceolate, unequally serrate, nearly sessile/ or with a petiole less than 5 mm. in length, of a bright green-colored and some-/ what glandular-hairy on the under surface; flowers arranged in opposite clus-/ ters and in more or less interrupted or crowded lanceolate, nearly acute spikes;/ Bracts linear-lanceolate, subulate, from 7 to 10 mm. in length, subtending the/ flower clusters; calys tubular, 5-toothed, glandular punctate and somewhat/ pubescent near the tooth, carolla nearly white or light brown, stamens exten-/ ding beyond the corolla tube; odor slightly pungent, characteristic; taste/ aromatic, characteristic but not followed by a cooling sensation in the mouth.

Preparation; Spiritus Menthae Viridis.

Average dose: Metric, 4 gm.

Apothecaries, 60 grains.

U. S. P. 1920, p. 237.

Mentha Viridis

Spearmint

Menth. Vir.

Spearmint consists of the dried leaves and tops of *Mentha Spicata*/ Linne (*Mentha Viridis*, Linne) (Fom. Labiatae.)

Spearmint contains not more than 2 per cent of stems over 3 mm./ in diameter, or other foreign organic matter.

Description and physical properties.

Unground Spearmint --- Leaves more or less crumpled, ovate-lanceolate, unequally/ serrate, nearly sessile or with a petiole less than 5 mm. in length, of a bright/ green color and somewhat glandular-hairy on the under surface; stem, occa- / sionally with characteristic opposite branches, distinctly quadrangular, from/ 1 to 3 mm. in diameter, nearly globrous and light brown or purplish-colored;/ flowers arranged in opposite clusters and in more or less interrupted or crowded/ lanceolate, nearly acute spikes; bracts linear-lanceolate, subulate, from 7 to/ 10 mm. in length, subtending the flower clusters; calyx tubular, 5-toothed,/ glandular-punctate and somewhat pubescent near the teeth; corolla nearly/ white or light brown; stamens extending beyond the corolla tube; odor/ slightly pungent, characteristic; taste aromatic, characteristic but not fol- / lowed by a cooling sensation in the mouth.

Powdered Spearmint --- Green; closely resembling the powder of Peppermint, except/ in the absence of crystals from the globular heads of the glandular hairs.

Preparation: Spiritus Menthae Viridis.

Average dose: Metric, 4 gm.

Apothecaries, 60 grains.

Summary of Data of Mentha Viridis U. S. P. 1820-1920 and N. F.

1886 - 1926

Mentha Viridis

Official in U. S. P., 1820, '30 (Phil.), '30 (N.Y.), '40, '50, '60, '70, '80, '90, 1900, '10, '20.

Official Latin Title:

Mentha Viridis; U. S. P. 1820, '30 (Phil.), '30 (N.Y.), '40, '50, '60, '70, '80, '90, 1900, '10, '20.

Official English Title:

Spearmint; U. S. P. 1820, '30, (Phil.), '30 (N.Y.), '40, '50, '60, '70, '80, '90, 1900, '10, '20.

Official Abbreviations:

Menth. Vir.; U. S. P. 1920.

Official Synonym:

Official Family:

Labiatae, U. S. P. 1880, '90, 1900, '10, '20.

Scientific Name:

1. Mentha Viridis, U. S. P. 1820, '30 (Phil.), '30 (N.Y.), '40, '50, '60, '70.
2. Mentha Viridis Linne
3. Mentha Spicata, Linne, U. S. P. 1900, '10, '20.

Part Used:

The herb, U. S. P. 1820, '30(Phil.), '40, '50, '60.

The leaves and tops, U. S. P. 1870, '80, '90.

The dried leaves and tops, U. S. P. 1900, '10, '20.

Description:

U. S. P. 1880; '90; 1900; '10; '20.

Official Preparation:

Spiritus Menthae Viridis, U. S. P. 1880, '90, '10, '20.

Official Average dose;

Metric, 4 gm.

Apothecaries, 60 grains, U. S. P. 1880, 1900, '10, '20.

APPROVED

W. Richtmann.

Assoc. Prof. of Pharmacognosy.