

BIBLIOGRAPHY OF ARCTOSTAPHYLOS UVA URSI LINNE

BY

FORREST THOMPSON KELLMAN



A THESIS SUBMITTED FOR THE DEGREE OF

GRADUATE IN PHARMACY

UNIVERSITY OF WISCONSIN
1923

B I B L I O G R A P H Y

Gryg, R.& Sons.

Uva Ursi

13th Cen.

Meddygon Myddfai. Mss.

(Pughe, The physicians of Myddrai-P.____)

(Tschirch, Handbk. Pharmacog. V. 2 p. 1343.)

Ibid., V. 1. p. 683. Miltspaugh, Med. Plnts.V.2.p.100-3.)

Uva Ursi was used in England in the 13th Century and is thought to be the earliest record of its medicinal use.

Abstract not available.

- - - - -

Clusius, C.

Uva Ursi.

1601.

Rar. Plant.Histor., p.____

(Tschirch Handbk. Phcog. V. 2. p. 1344

Miltspaugh Med. Plnts. V. 2. p. 100-3.)

Describes and figures the plant.

- - - - -

Gerhard, ____.

Die Bärentraube chymisch medicinisch betrachtet

1763.

Dissertatim.

(Tschirch Handbk. Phcog., V. 2. p. 1344)

Flueckiger Hanbury Pharm. p. 359;

Miltspaugh Med. :lts. V.2. p. 100-3.)

Reports using the plants in Berlin.

- - - - -

Quer, ____

Uva Ursi.

1763

Dissertacion sobre la passion reptiutica y su verdadero especifico la Uva Ursi o Gayubar.

(Tschirch Handbk. Phcog. V. 2. p. 1344.) Madrid.

Used the leaves in Spain and figures the plant.

Murray, J.A.

1765

Commetatis de Arbutis uva ursi,
exhibens descriptinam ejus botenicum analysin
chemicam ejusque in medicina et oconomia
varium usum.

Pamphlet- Goettinger

(Tschirch, Handbk. Pharmacog;, V. 2. p. 1344.;
Surg. Gen. Libr; Ind. S. 1 V. 15. p. 444.)

The original article was not available.

- - - - -

Forster, J.R.

1771

Arbutus uva ursi

Flora America Septentuaratis, p. 20

Lists the plant as occurring in Canada & New York.

- - - - -

Linne, C.

1783.

Uva Ursi

Flora Lapponica 6. Fig. 3

(Tschirch Handbk. Phcog., V. 2. p. 1344.)

(The original article was not available.)

Spielman, __.

1783

Uva Ursi

Pharmacopoeia generalis, p. __.

(Tschirch- Handbk. Phcog. V. 2. p. 1344.)

Lists Uva Ursi as a remedial agent.

- - - - -

Schneider, J.H.

1778

Antinephrituam uvae ursinae
virtutem meritis suspectam aestamabit.

Pamphlet

(Sur. Gen. Libr. Index S.l. V. 15, p. 444.)

(The original article was not available.)

1788.

Uva Ursi folium.
Arbutus Uva Ursi L.S.P.

Pharm. Lond. p. 17.

(Flueckiger- Hanbury pharmacographia., p. 359.)

Simply listed uva ursi.

Murray, J.A.

1794.

Uva Ursi

Apparatus medicamenum, V.2.p. 64.

(Tschirch, Handbk. Phcog., V. 2. p. 1344;
Flueckiger & Hanbury, Pharmacographia, p. 359.)

Give a bibliography of the old literature of
Uva Ursi.

Wildenum, C.L.

1799.

Arbutus Uva Ursi.

Linnaem Spec. Plant. V. 2. p. 618.

(U.S. Dispens., 2 ed. p. 681;
Ibid 3 ed. p. 663;
Ibid 4 ed. p. 697;
Ibid 5 ed. p. 729;
Ibid 7 ed. p.1431;
Ibid 12 ed. p. 845;
Ibid 13 ed. p. 878;
Ibid 14 ed. p. 916;
Ibid 15 ed. p.1508.)

The original article was not available.)

Woodville, W.

1800.

Arbutus Uva Ursi Trailing Arbutus or Bearberry.

Med. Bot. V. 2. p. 287. p. 100.
 (Nat. Dispens. 2 ed., p. 1501;
 Ibid 3 ed., p. 1583;
 Bentley & Trimen, Med. Plts., V. 3. t 163.
 Miltspaugh, Med. Plts. V. 2. App. p. 35.)

Gives a description and synonyms of the plant.)

- - - - -

Mitchell, J.S. 1803

An Essay on the Arbutus Uva Ursi
 and pyrolin Umbellata and Mornlits of
 Linnens

Inuagral Dissertatim

(Am. Dispens; 1 ed. p. 190;
 Ibid 7 ed. p. 629;
 Surg. Gen. Libr., Index, S 1 V. 15.p. 444.)

An essay on the habitat, properties, uses and dose of
 Uva Ursi; based on actual experiences with the drug.

- - - - -

Coxe, J.R. 1806

Arbutus Uva Ursi.

Am. Dispens., 1 ed. p. 190.

Gives a brief description of the plant; its habitat,
 medical properties and uses.

- - - - -

1808

Uva Ursi

Pharm. Mass. Med. Sc. p. 7.

Uva Ursi leaves were official under the common name of
 bearberry and derived from Arbutus Uva Ursi.

- - - - -

Barton, B.S. 1810

Antilithics

Collerctm towards a Mat. Med. of U.S. V. 1. p. 47.

Tells of the Use of Uva Ursi.

- - - - -

Thatcher, J. 1813.

Arbutus, Uva Ursi.

Am. Dispens. 2 ed., p. 147.

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

- - - - -

Henry, S. 1814.

Uva Ursi.

A new and complete American Medical Family Herbal, p. 19.

Discusses the drug under the following heads:-
Description, Habitat, Medicinal Virtues, and Preparations.
Also gives an illustration of the plant.

- - - - - Thornton, J.T.

Thornton, J.T. 1814.

Trailing Arbutus, or
Bear-Berry Arbutus Uva Ursi.

Family Herval, 2 ed., p. 451.

Gives a description of the plant, its habitat and medical virtues.

- - - - -

Nees, Von Esenbeck, C.G. 1816.

Arctostaphylos Uva-Ursi

Plinters Med. V. 1. t. 215.

(Tschirch Handbk. Phcog. V.2. p. 1340;
Pabsts-Koehler, Medizinalpfl-V.2. p. 510.)

Gives a colored illustration of plant parts.

- - - - -

Bigelow, J. 1817.

Arctostaphylos Uva Ursi.

Am. Med. Bot. V.1.p. 67 t.6

(Bentley & Trimen; Med. Plts. V.3. p. 163;
Miltspaugh, Med. Plts., App. p. 35;

U.S. Dispens. 2 ed; p. 681;

Ibid 3 ed; p. 663

Ibid 4 ed; p. 697

Ibid 5 ed. p.729;
 Ibid 7 ed. p.1431;
 Ibid 10 ed. p.1508;
 Ibid 12 ed. p.845;
 Ibid 13 ed. p.878;
 Ibid 14 ed. p.916;
 Ibid 15 ed. p.1508)

The original article was not available.

- - - - -

Bigelow, J. 1822

Uva Ursi.

Materia Medica p. 385.

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

- - - - -

Reichenbach, H. 1823

Arctostaphylos Uva Ursi

Icones. Flora Germanica V. 17 t. 1147.

(Bentley-Trimmen. Med. Plts. V. 3. p. 163.)

(The original article was not available.)

- - - - -

Coxe, J.R. 1827

Uva Ursi A. Arbutus Uva
 Ursi E.

Am. Dispens. 7 ed. p. 629.

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

- - - - -

Rafinesque, C.S. 1828

Uva Ursi.

Med. Flor., V. 1. p. 57, fig. 9.
 (Miltspagh, Med. Plts., V.2 App. p. 35.)

A full page illustration of the plant is accompanied with
 a description, the habitat, medicinal properties and
 uses of the leaves.

- - - - -

- Rafinesque, C.S. 1828
 Arbutus Uva Ursi.
 Med. Flora or Med. Bot. of U.S. V.3. p. 57.
 Gives the names, history and description of the plant.
 - - - - -
- Meissner, M. 1830
 Analysis of the Leaves of
 Uva Ursi
 Am. Journ. Pharm. 2, p. 339.
 Gives an analysis of the drug, naming the constituents
 and amounts present.
 - - - - -
- Waddell, W.W. 1830
 Two Cases illustrating the
 uses of Uva Ursi.
 N. Am. Med. & Surg. Journ. V. 10. p. 775.
 (Surg. Gen. Libr. Index. S 1 V. 15 p. 444.)
 The uses of Uva Ursi are reported.
 - - - - -
- Ritter, B. 1831.
 (Of the) in nephritis cases, etc.
 Boston Méd. & Surg. Journ. V. 4. p. 191.
 (Surg. Gen. Libr. Index, S. 1 V. 15. p. 444.)
 Tells of the action of Uva Ursi in treating cases of
 nephritis.
 - - - - -
- Stephenson, J. & Churchill, J. 1831.
 Arctostaphylos Uva Ursi
 Med. Bot. t.91.
 (Bentley Trimen Med. Plts., V. 3 t. 163.)
 Contains a colored illustration of uva ursi.
 - - - - -

Koch, J.D. 1833

Arctostaphylos Uva Ursi.

Syn. Fl. Germ. V. 2. p. 546.

(Bentley & Trimen Med. Plts. V.3. t. 163.)

Gives family name and order of the plant.

- - - - -

Wood, G. B. & Bache, F. 1834.

Uva Ursi; U.S.

U.S. Dispens. 2 ed; p. 681.

(Ibid 3 ed; p. 663;

Ibid 4 ed; p. 697;

Ibid 5 ed; p. 729.)

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

- - - - -

Lindley, J. 1838

Arctostaphylos

Flor. Medica, p. 382.

(U.S. Dispens., 12 ed; p. 845;

Ibid; 13 ed; p. 878;

Ibid; 15 ed; p.1508;

Bentley & Trimen, Med. Plts. 3 - 163;

Miltspaugh, Med. Plts., V.2.App. p. 35.)

Gives a description of the plant and its habitat.

- - - - -

Pereira, J. 1842

Arctostaphylos Uva Ursi-The Bearberry.

Mat. Med., V. 2. pt. 2. p. 1335.

(Bentley & Trimen, Med. plts., V.3. t. 163.)

Gives the history, description, uses and preparation of the drug.

- - - - -

Ritter, B. 1844

Ueber die Wirkling der Herba uvae ursi
bie Ischurie.

Med. Ann, Heidelb. V. 10, p. 117.

(Surg. Gen. Libr. Index, S.l. V. 15-p.444.)

The original article was not available.

- - - - -

Carson, J. 1847

Uva Ursi

Illust. of Med. Bot 61 pl. 52

U.S. Dispens;	7	ed;	p. 1431;
Ibid	10	ed;	p. 743;
Ibid	12	ed;	p. 845;
Ibid	13	ed;	p. 878;
Ibid	14	ed;	p. 916;
Ibid	15	ed;	p. 1508;

The original article was not available.

- - - - -

Darlington, W. 1847

Uva Ursi

Agr. Plants & Am. Weeds V. 1. p.103.

(Miltspaugh Med. Plts., v.2.pp.p.35.)

Gives a description, order and family names of the plant.

- - - - -

Griffith, R.E. 1847

Med. Bot., p. 425. fig. 191.

(Miltspaugh, Med. Plts., V. 2. App., p. 35.)

(The original article was not available.)

- - - - -

Hughes, C.C. 1847

Uva Ursi or Bearberry.

Am. Journ of Pharm. V. 19. p. 88.

(Miltspaugh Med. Plts., V. 2. p. 100;

King's Am. Dispens., 18 ed. V. 2. p. 2038.)

Gives a description of the plant, its medical properties and chemical history.

- - - - -

Hughes, J. & Curtis, C.

1847

On Uva Ursi or Bearberry.

Am. Journ. Pharm., V. 19 p. 90.

Am. Dispens.	6 ed;	p. 127;
Ibid;	10 ed;	p. 120;
Ibid;	12 ed;	p. 845;
U.S. Dispens;	13 ed;	p. 879;
Ibid;	14 ed;	p. 196)

Gives the medical properties, chemical history and different preparations of Uva Ursi.

- - - - -

Sprengel, K.

1847

Arctostaphylos Uva Ursi

Syst., V. 2. p. 287.

(U.S. Dispens;	5 ed;	p. 729;
Ibid	7 ed;	p.1431;
Ibid	10 ed;	p. 743;
Ibid	12 ed;	p. 845;
Ibid	13 ed;	p. 878;
Ibid	14 ed;	p. 916;
Ibid	15 ed;	p.1508.)

(The original article was not available.)

- - - - -

Wood, R.

1850

Uva Ursi.

Class Book of Botany - P. 486.

(Miltspaugh, Med. Plts., V. 2 app. p. 35.)

The original article was not available.)

- - - - -

Clapp, A.

1852

(Uva Ursi)

Catl. Med. Plts. U.S. p. 126.

(Trans. Am. Med. Assoc. 5, p. 810;
Miltspaugh, Am. Med. Plants V. 1. app. p. 35.)

Lists botanical references of the plant, its habitat,
brief description, and medicinal uses.

- - - - -

Harris, E.G. 1853

Uva Ursi as a Substitute
for Ergot.

South Med. & Surg. Journ. V. 9.p. 517.
(Surg. Gen. Libr. Index. S. 1. V. 15.p. 444.)

(The original article was not available.)

- - - - -

Rochleder & Schwarz. R. 1853.

Ubr die pflanzen der
Familie der Ericacen.

Journ. Park. Chem. 58. p. 213.

(Tschirch Handbk. Phcog., V. 2. p. 1342.)

Gives formula and sundry data of the constituents of
Uva Ursi.

- - - - -

Debout, E. 1854.

De l'uva ursi dans le trait-
ment de quelques maladies chriniques des vous
urinaires.

Bull. Gin. de Therap., 14. p. 505.
(Surg. Gen. Libr. Index, S. 1.V. 15.p. 444.)

(The original article was not available.)

- - - - -

Trommsdorf, H.H. 1854

Urson, ein neuer stoff van den Blättern
der Bärentraube.

Archiv. d. pharm., 129. p. 274.

Am. Journ. Pharm., 28. p. 334.

(Miltspaugh Med., Plts. V. 2. p. 100-6.)

Bentley & Trimen, Med. Plts. V. 3t. 163;

U.S. Dispens. 12 ed., p. 845;
 Ibid. 13 ed., p. 879;
 Ibid 14 ed., p. 916;
 Ibid 15 ed., p.1509;
 Ibid 17 ed., p.1431;

Tschirch, Handbk. Phacog., V.2.p. 1342.

Gives a discussion on Ursme a new substance extracted from the leaves of Uva Ursi.

- - - - -

Wood, G.B. & Bache F. 1854.

Uva Ursi. U.S., Lond., Ed., Dub.

U.S. Dispens. 10 ed., p. 743.

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

- - - - -

Harris, E.G. 1855.

Uva Ursi.

South. Med. & Surg. Journ. II, p. ____.
 (Med. Exam. U.S. 9 p. 727)

U.S. Dispens., 10 ed., p. 744;
 Ibid 12 ed., p. 845;
 Ibid 13 ed., p. 879;
 Ibid 14 ed., p. 918;
 Ibid 15 ed., p.1510.)

(The original article was not available.)

- - - - -

Gray, A. 1856

Arctostaphylos, Uva Ursi.

Man. Bot., N.U.S., p. 637.
 Bentley-Trimmen Med. Plts., V. 3. p. 163;
 Miltspaugh, Med. Plts., V. 2. app. p. 35.)

Gives description of the plant and derivation of name.

Schübeler, F. 1857.
Arctostaphylos Uva Ursi.

Pflanzenwelt Nouvegens.

(Tschirch. Handbk. Phcg., V. 2. p. 1344.)

(The original article was not available.)

- - - - -

Beauvais, _____ 1858.

Uva Ursi as an Obstetrical Agent.

Bull. Gen. de therap., 22, p. 67.

Eclec. Med. Journ., 18. p. 424;

Drugg. Circ., 2. p. 248;

Surg. Gen. Libr. Index, S.l. V. 15 p. 444.

Gives brief discussion of *Uva Ursi* being used as an obstetrical agent, comparing it with ergot.

- - - - -

Berg, O.C. & Schmidt, C.T. 1858.

Arctostaphylos Uva-Ursi

Daistillung U. Beschreib. offizinell. Gertachse.
 V. 1., Taf. 20.

(Pabst Koehler Medizinalpfl., V. 2. p. 510.)

(Bentley & Trimen, Med. Plts. V. 3. t. 163.)

A colored illustration of the plant, its botanical description, constituents and medicinal properties are given.

- - - - -

Lee, C.A. 1859
Arctostaphylos Uva-Ursi.

Journ. Mat. Med., 1 p. 357.

(Miltspagh, Med. Bot., V. 2. App. p. 35.)

Gives chemical composition, therapeutical properties and uses and preparations of the leaves of *Uva Ursi*.

- - - - -

Merril, A.M. 1859

On the Solubility of the
 Medicinal principles of all
 organic matter in alcohol.

Am. Journ. Pharm. 31, p. 48.
 (U.S. Dispens., 13 ed., p. 878;
 Ibid 14 ed., p. 917.)

Hypothesis on the solubility of alcohol and the purity of the fluid extracts that may be obtained, including that of uva ursi.

- - - - -

Uloth, W. 1859
 Ueber Brenzcatechin und Ericacein

Journ. Prak. Chem. 78. p. 234.

(Tschirch.Handbk. Phcog., V. 2. p. 1342.)
 Flueckiger Hanbury Pharmacographia, p. 359.)

Tells of Brenzcatechin and Ericacein, the latter obtained from the leaves of Uva Ursi.

- - - - -

Uloth, W. 1859
 Uiber Brenccatechin und Ericacein.

Ann. d. Chem. 111 p. 215. 1859.

(Tschirch.Handbk. Phcog., V. 2. p. 1342.)

Tells of the work done in the laboratory on Brenccatechin and Ericacein.

- - - - -

Johnson, W. 1860
 Uva Ursi an Uterine Excitant.

Journ. Mat. Med. 2, p. 224.

(Miltspaugh. Med. Bot., V. 2. App. p. 35.)

Discusses the use of Uva Ursi in place of Ergot.

- - - - -

Gauchet, A. 1861
 Uva Ursi in Certain Cases of
 Extremely Slow Labor.

Bull. Gen. de therap., 22, p. 678
 Drugg. Circ., 5. p. 87.)

Short discussions of Uva Ursi in certain uses of extremely slow labor.

- - - - -

Guelin, L.

1862.

Arbutin

Chemistry, V. 15. p. 49 & V. 16. p. 28.

(Miltspaugh, Med. Bot., V. 2. p. 100-5; Flueckiger & Hanbury, Pharmacographia, p. 359; Bentley & Trimen, Med. Plts. V. 3. p. 163.)

V. 15 -Discusses occurrence, preparation and properties of Arbutin.

V.16.- Gives formula and discusses properties of Ericolin.

- - - - -

Karsten, H.

1862

Arctostaphylos Uva Ursi.

Deutsche Flora, p. 901.

(Pabst-Koehler-Medizinalpflz. V.2. p. 510.)

The original article was not available.)

- - - - -

King, J.

1864.

Arctostaphylos Uva Ursi.

Am. Dis. 6 ed. p. 127.

Gives a description of the plant, its habitat, medical properties, and uses. Gives botanical and common names.

- - - - -

Wigand, J.W.A.

1864.

Folic Uvae Ursi.

Pharmakognesie 1st ed. p. 161.

Ibid 4 ed. p. 232.

(Zoinig Arzneidrogen, V.1.p. 183.)

Describes the leaves, microscopically and adulterations.

- - - - -

Zirenger, C.U &

Himmilmann, C.

1864.

" Ueber Chinasäure, Ericmin
and Arbutin.

Ann. d. Chem. 129. p. 207.

(Tschirch Hndbk. Phcog., V.2. p. 1342.)

Gives reactions and formulas of Ericmin and Arbutin.

- - - - -

- Wood, G.B. & Bache, F. 1865
 Uva Ursi. U.S. Br.
 U.S. Dispens. 12 ed. p. 845.
 Gives a description of the plant, its habitat, medical properties and uses.
 - - - - -
- Kawalier, A. 1868
 Arctostaphylos Uva Ursi.
 Am. Journ. of Pharm. 25., p. 68.
 Gives the constituents of the leaves, reactions with chemicals, and formulas.
 - - - - -
- Luerssen, C. 1868.
 Arctostaphylos, Uva-Ursi.
 Handbk. d. syst. Bot. V.2 p. 930.
 (Pabst. Koehler Medizinalpflz. V.2.p. 510.)
 (The original article was not available.)
 - - - - -
- Bowman, H.K. 1869.
Uva Ursi
 Quantitative Determination of the Amount of Tannin in Various Vegetable Astringents.
 Am. Journ. Pharm. V. 41. p. 195.
 Gives the Quantitative Determination of tannin in Ursi leaves.
 - - - - -
- Betz, F. 1870
 Folia Uvae Ursi; eine pharmakodynamische Studie.
 Memorabelein Heilbr. V. 15. p. 89.
 (Surg. Gen. Libr. Index S. 1. V. 15. p. 444.)
 The original article was not available.)
 - - - - -
- Schiff, H. 1870
 Zur Constitution des Arbutin.

Ann. d. Chem. 154. p. 237.

(Tschirch, Hndbk. Phcog., V. 2. p. 1342.)

Tells of the composition of Arbutin and gives Formulas and reactions.

- - - - -

Wood, G.B. & Bache, F. 1870

Uva Ursi U.S.

U.S. Dispens. 13 ed. p. 878.
(Bentley & Trimen, Med. Plts. V.3.t. 163.)

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

- - - - -

Hughes, E.C. 1871

Uva Ursi

Am. Journ. of Pharm., 43, p. 204.
(U.S. Dispens. 14 ed., p. 917;
Ibid 15 ed., p.1509;
Ibid 17 ed., p.1432.)

Gives a botanical description of the plant and its habitat, refers to its introduction into medicine and reviews the analyses made since 1809.

- - - - -

Jungmann, J. 1871.

Uva Ursi.

Am. Journ. Pharm. 43, p. 202.
(Kings Am. Dispens. 18 ed. V.2.p. 2038.
U.S. Dispens. 14 ed., p. 917;
Ibid 15 ed., p.1509;
Ibid 17 ed., p.1432.)

Gives a description of the plant, its constituents, medical properties and some chemical reactions.

- - - - -

Flint, J.H. 1873.

Arctostaphylos Glanca.

Am. Journ. Pharm. 45. p. 197.
(Bentley & Trimen, Med. Plts., V.3.t 163;

King's Amer. Dispens. 18 ed. V.2 p. 2040;
 U.S. Dispens., 14 ed., p. 918;
 Ibid 15 ed., p.1510;
 Ibid 17 ed., p.1431.)

Gives a description of *Arctostaphylos Gleanca* and states that a of the leaves is held in high esteem by the natives of California.

- - - - -

Bentley, R. 1874
 Redwood.

Uva- Ursi

Perura's Mat. Med., p. 675.
 (Bentley-Trimmen, Med. Plts., V.3. t.163.)

(The original article was not available.)

- - - - -

"
 Flueckiger, F.A. & Hanbury, D. 1874.

Folia Uvae Ursi.

Pharmacographia p. 359. (Hist. des Drogues. V.2. p. 35;
 Pabst-Koehler *Medizinalpflz*, V.2. p.510;
 Bentley-Trimmen. Med. Plts. V.3. t. 163;
 Miltspaugh, Med. Plts. V.2. app. p. 35.)

Discusses the botanical origin, history, description, chemical composition, adulteration and uses of the leaves.

- - - - -

Maisch, J.M. 1874.

On the Occurrence of Arbutin in
 Ericaceous plants.

Am. Journ. Pharm., 46. p. 314.
 (U.S. Dispens. 14 ed. p. 917.
 Ibid. 15 ed. p.1509.
 Ibid 17 ed. p.1432.
 (Tschirch. *Hndbk. Phcog.*, V.2. p.1342.)

States that arbutin is found in numerous plants of the *Ericaceae* Family. He mentions the individual plants.

- - - - -

Pocklington, H. 1874.
 The Microscope in Pharmag.

Pharm. Jour., S.3, V.5, p. 301;

Tschirch.Hndbk. Phcog., V.2.p. 1342;
Bentley-Trimen, Med. Plts., V.3. t. 163.)

Tells how the leaves of *Arctostaphylos Uva Ursi* look under the microscope.

Hasrivetz, H. & Habermann, F.

1875.

Ueber das Arbutin.

Ann. d. Chem. 177. p. 334.
(Tschirch Hndbk. phcog. V.2. p. 1342;
Miltspaugh Med. Plts. V.2.p.100-3.)

Tells of reactions of Arbutin and of the preparation of hydroquinine from it.

King, J.

1875

Arctostaphylos Uva Ursi.

Am. Dispens., 10 ed., p. 126.

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

Bidwell, M.S.

1876

Uva Ursi and Spirit of Nitre.

Am. Journ. Pharm., 47. p. 214.

Gives a description of the reaction between sweet spirit of nitre and *uva ursi*.

Saunders, W.

1878

President's Address.

Proc. Am. Pharm. Assoc., 26. p. 848.

Mentions the use of *Uva Ursi* eighty years ago.

Filhol, ___ & Fubault, ___.

1879.

Resume des travaux accomplis par les
pharmaciens de la region de Toulouse.

Jour. d. Pharm. 30. p. 204;
Tschirch Hndbk. Phcog., V.2.p.1342.)

Discusses the region in which Uva Ursi is found, percentage of tannin and principal constituents.

- - - - -

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

Uva Ursi.

National Dispens. 2 ed. p. 1501.

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

- - - - -

Wood, G.B. & Bache, F. 1879.

Uva Ursi U.S.

U.S. Dispens. 14 ed. p.916.

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

- - - - -

Bentley, R. & Trimen H. 1880

Arctostaphylos Uva-Ursi.

Med. plts. V.3 t.163.

(Tschirch Hndbk. phcog. V.2. p. 1340;
Miltspaugh, Med. Plts., V.2.App. p. 35;
Fabst-Koehler, Medizinalpflz V.2.p.510;
Nat. Dispens; 2 ed. p.1501;
Ibid 3 ed. p.1583;
Ibid 5 ed. p.1678;
U.S. Dispens. 7 ed. p. 1431;
Ibid. 15 ed. p.1508.)

Description, habitat, official parts and name, collection, general characters and composition, substitution and adulteration, medical properties and uses, bibliography and a full page colored illustration with explanation, are given for the drug.

- - - - -

Schiff, H. 1880

Zur Constitution des Arbutin.

Ann. d. Chem. 206. p. 159.

(Tschirch, Hndbk. Phcog., V.2. p. 1342.)

Tells of the reactions and of Arbutin composition.

- - - - -

Allaire, C.B. 1882
On the purity of powdered
Drugs.

Proc. Am. Phar. Assoc., 30. p. 577.

Discusses the characteristics of various powdered drugs,
including Uva Ursi.

- - - - -

Schiff, H. 1882
Methyl Arbutin.

Ber. d. Chem. Ges., 15. p. 841.
(U.S. Dispens., 17 ed., p. 1432.)

Tells of the preparation and reactions of methyl arbutin.

- - - - -

Wittstein, G. C. 1882
" Buentrauf litter

Org. Constit. Plants V.1. p. 52.

(Miltspaugh, Med. Plants, V.2. p. 100-6.)

Gives the family name order, a description of the leaves,
and a list of constituents.

- - - - -

Habermann, J. 1883.
Uber das Arbutin.

Monatsh. Chem. 4. p. 753.
(Tschirch, Hndbk. phcog. V.2. p. 1342.)

Gives a lengthy discussion of Arbutin formulas and
reactions.

- - - - -

Lewin, L. 1883.
Uber Folia Uvae Ursi und Arbutin.

Centralbe. fri Klin. Med. 4 p. ___
Chem. Drugg. 25. p.563;
Medic Zeit. ___ p. ___
Pharm. Centrehl. 24. p. 418.)

Tells of the constituents of Bearberry leaves and of the uses.

- - - - -

Lewin, L. 1883.

Unter suchung in "über das chemische und pharmackolgische Verhalten der Folia uvae urse und des Arbutens in Theirkooper.

Arch. f. path. Anat. 92-p. 517.
(Surg. Gen. Libr. Index.S.1,V. 15.p. 444;
Pharm. Journ. S.3,V.14,p. 490;
Miltspaugh, Med. Plts. V.2,p.100-4.)

(The original article was not available.)

- - - - -

Schiff, H. & Pellezzeri, G. 1883.

Über Methyl Arbutin, Benzyl Arbutin und Benzylidioxy benzale.

Ann d. Chem. 221. p. 365.
(Tschirch Hndbk. Phcog. V.2. p. 1342.)

Tells of Methyl arbutin and Benzyl-arbutin-gives formulas, formation, preparation of and chemical reacions.

- - - - -

Thal, R. 1883.

Erneute unterschung in "über die Zusammensetzung und Spaltungs produkte des Ericolins und über seine Verbreitung in der Familie der Ericaceae nebst anhang über die Leditamisanse, die Collectanssenou und das pinipikin.

Ber. d. d. Chem. Ges. 16-1. p. 1502
(Pharm. Zeit. Russl. 22. p. 209.
Am. Journ. Pharm. 54. p. 468.
Tschirch Hnadbk. Phcog. V.2. p. 1342;
King's Am. Dispens., 18 ed. V.2.p. 2039.)

Tells of Ericolin being found in Uva Ursi.

- - - - -

Johnson, L. 1884.

Arctostaphylos Uva Ursi.

A manual of the Med. Bot. of N. Am. p. 191.

Gives a very good description of the plant, its habitat, parts used, constituents, medical properties and uses.

- Menche, H. 1884.
Arbutin.
Am. Journ. Pharm. 56 .p. 51.
(Miltspaugh, Med. Plts. V.2. App. p. 35.)
Tells of the use of Arbutin as a diuretic, its properties and dose.
-
- Paschkis, H. 1884.
The Action of Arbutin and Folia Uvae Ursi.
Therap. Gas., 8. p. 554.
(Miltspaugh, Med. Plts. V.2. App. p. 35.
Surg. Gen. Libr. Index. S.1 V. 15. p. 444.)
Discusses action, properties and doses of the drug.
-
- Schunck, E. U & Marchlewski, L. 1884.
Arbutinzucker
Ann. d. Chem., 278. p. 354.
(Tschirch Handbk. Phcog. V.2. p. 1342.)
Tells of identifying Arbuten sugar with dextro Glucose.
-
- Stille, A. & Maisch, J.M. 1884.
Uva Ursi, U.S. Flod.
Nat. Dispens. 3 ed., p. 1583.
Gives a description of the plant, its habitat, origin, constituents, medical properties and uses.
-
- Dalmm, J. 1885.
Crystallized Arbutin and Arbutose.
Am. Journ. Pharm. 57, p. 139.
(Miltspaugh, Med. Plts., V.2. App. p. 35.)
Gives the active principle of the bearberry and discusses the transformation of arbutin into hydroquinine.
-

- Vulprus, G. 1885
 Uber Arbutin
 Arch Pharm. V. 243 p. 432.
 (Tschirch Handbk. Phcog. V. 2. p. 1342.
 Arzneidrogen, V.1. p. 183)
 Gives the properties and formula of Arbutin.
 - - - - -
- Bousoff, P.M. 1886
 Materiala ellja farmakog in
 arbutin, glukogida, dobiwamos iz listyer
 Uva Ursi. (Pharmacology of Arbutin Glucoside
 and the leaves of Uva Ursi and their
 application.
 Pamphlet St. Petersburg.
 (Surg. Gen. Libr. Index. S.1.V.15.p.444)
 Gives the pharmacology of Arbutin and the leaves of
 Uva Ursi.
 - - - - -
- Gray, A. 1886
 Arctostaphylos, Bearberry Manganita
 Flora of N.A., V.1. p. 27
 (Miltspaugh, Med. Plts. V.2, App. p.35.)
 Gives habitat and description of plant.
 - - - - -
- Laurentz, H. 1886
 Hydroquinine and Arbutin.
 Am. Journ. Pharm. p. 385.
 (Miltspaugh. Med. Plts., V.2.p. 100-6.)
 Tells of the detection of the two substances named
 above in the leaves of Uva Ursi and of their different
 reactions.
 - - - - -
- Wood, G.B. & Bache, F. 1886
 Uva Ursi U.S. Uva Ursi (Bearberry)
 U.S. Dispens. 15 ed. p. 1508.
 Gives a description of the plant, its habitat, medical
 properties and uses.

Anonymous. Prescription Difficulty. 1887
 Drug. Circ. 31, p. 86.
 Gives a difficult prescription in which Uva Ursi is used.

- - - - -

Scheenk, J. Mentha and Uva Ursi 1888
 Am. Drug. 17. p. 102.
 (Proc. Am. Pharm. Assoc., 36, p. 341.)
 Gives brief discussion of anatomide structure of each
 plant and states that the plant possesses hairs.

- - - - -

Plugge, P.C. 1889
 " Fortgesetate Untersuchungen
 Uber die Verbrietung des andromedotoxins
 in der Familie der Ericaceae.
 Archiv. d. Pharm. 227.p. 164.
 (Tschirch Hndbk. Phcog. V.2.p. 1342; Am. Journ. Pharm.
 51.p. 361.)
 Gives a list of the plants that are free from andro-
 medatoxins and arctostaphylos officinalis is among them.

- - - - -

Uva Ursi 1889
 Boston Med. & Surg. Journ. 120., p. 583.
 (Nat. Dispens., 5 ed., p. 1680.)
 (The original reference was not available.)

- - - - -

Braemer, ___ Uva Ursi 1890
 Tannoides, p. ___.
 (Tschirch. Hndbk. Phcog., V.2.p. 1342.)
 (The original reference was not available.)

- - - - -

Oelge, T. 1890

Vaccinum vitis idaea Beetrage
zur chemischen Kenntnias der ericaceae
spierell der Pheiselbeese

Jahresb. der Pharm. Inaugical Dissertation Erlinger.p.73
Kings Am. Dispens. 18 ed. V.2. p. 2040.

Determines the constituents of various parts of the plant,
leaves of which are commonly substituted for those of
Uva Ursi.

- - - - -

Flückiger, F.A.

1891

Folia Uva Ursi-Barentraube

Pharmakognosie, p. 623.
(Tschirch. Hndbk. Phcog. V.2. p. 1340; Pabst-Koehler,
Medizinelpflz, V.2.,p. 310.)

Gives a description of the plant and tells of the con-
stituents of the leaves, their history, adulteration,
and uses.

- - - - -

Murills, L.G.

1891

Breves apuntes sobre la pengerim
Arctostaphylos pungens.

Surg. Gen. Lib. Ind. S.1 V.1.p. 618.

(The original abstract was not available.)

- - - - -

Galesburg, C.L.

1892.

Spirit of Nitre and Ext. of
Uva Ursi.

Am. Drug. & Pharm. Rec., 22. p. 97.

Tells of the action that occurs between spirit of
nitre and fluid extract of Uva Ursi with the evolution
of carbon dioxide.

- - - - -

Sears, J.H.

1892

Uva Ursi

Letter from Peabody Acad. Sci.,

(Miltspaugh. Med. Plts., V.2.p. 100-3.)

Says that the Shakers at Groton, Mass. where the Uva Ursi is common go 40 to 50 miles to Damces and collect the leaves of Vitis Idaea instead.

- - - - -

Calvert, J. 1893

Uva Ursi and Spirit of
Nitrons Ether.

Proc. Am. Pharm. Assoc., 42, p. 526.

States that when Uva Ursi is mixed with Spirits Nitrons Ether that it sometimes explodes.

- - - - -

Gintl, W.H. " 1893

Über das Urson

Monatsh f. Chem. V. 14. p. 255.
(Tschirch. Hndbk. Phcog. V.2. p. 1342.)

Tells of the work done in laboratories at University of Prague on the chemistry of Ursone.

- - - - -

1893

Uva Ursi and Sweet Spirit of
Nitre.

Am. Drug. & Pharm. Rec., V. 23. p. 5.

Gives prescription in which Uva Ursi is used with sweet spirit of Nitre, and comments on the reaction.

- - - - -

Stille, A., Maisch, J.M. Caspari, C., Maisch, H.C.C.
1894.

Uva Ursi. U.S.F. lod.--Uva Ursi

(Nat. Dis. 5 ed. p. 1678.)

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

- - - - -

Wood, G.B. & Bache, F. 1894

Uva Ursi. U.S.(Br.)

U.S. Dispens., 7 ed., p. 1431.

Gives a very lengthy description of the plant, its medical properties and uses.

 Andersen, ___ of Kallstrom, ___ 1896

Folia Uvae Ursi

Nord. Farm. Tidskr, ___ .p. 33.

(Tschirch Hndbk. Phcog. V.2.p. 1342; Pharm. Ztg. 41.p. 257; Zoinig, Arzneidrogen V.1.p. 183.)

Discusses Uva Ursi and its two most common adulterants.

 De Graffe, B.L. 1896

The Tannins of Some
Ericaceae.

Am. Journ. Pharm. V. 68. p. 313.

(Tschirch Hndbk. Phcog., V.2.p. 1342.)

Tells of finding Tannins in the Ericaceae family, mentioning the individual plants.

 Perkins, A.G. 1897

Coloring principle of
Uva Ursi.

Am. Journ. Pharm. 70, p. 584.

(Kings Am. Dispens; V.2.18ed. p. 2039; Chem. News, 7, p. 208; Prec. Chem. Sci. 93 I. p. 104; Tschirch Hndbk. Phcog. V.2. p. 1342; Chem. Centrbl1; 1897, V.1.p. 1305; Zoinig Arzneidrogen; V.1.p. 183.)

States that there is a yellow color in it and gives the composition.

 Schorlemmer, C. 1898

(Uva Ursi)

Chem. Carb. Comp. p ___.

(Miltspagh. Med. Plants. 2.p.100-6.)

(The original article was not available.)

 Felter, H.W. Lloyd, J.U. 1900

Uva Ursi (U.S.P.) - Uva Ursi

Kings Dispens. 18 ed. V.2. p. 2038.

Gives a description of the plant, history, chemical composition, its medical properties and uses.

- - - - -

Mejiers, F.S. 1902

Ido synkrasie voor folia
Uvae Ursi

Niederl. Tydschr V. Geneesk.Amst., S.2,28,p. 1226.
(Surg. Gen. Libr. Index. S.2 V. 19.p. 669.)

The original article was not available.

- - - - -

Werler, O. 1902

Ueber neuere praeparate der
Folia uvae ursi

Aertzl Rundschau, V. 12.p. 186.
(Surg. Gen. Libr; Index S.2, V. 19,p. 669.)

(The original article was not available.)

- - - - -

Hirschsohn,E. 1903

Reaktion des Ursons.

Pharm. 74.p. 1026.
(Tschirch. Hndbk. Phcog. V.2. p. 1342.)

Tells of the reactions of Urson and something of Cholestron.

- - - - -

Meyers, ___ 1903

Toxic effect of Uva Ursi.

Drugg. Circ., 47. p. 258.

States that in certain cases Uva Ursi has a very toxic effect.

- - - - -

Chemineau, ___ 1904

Uva-Ursi.

Recherches microchimique sur quelque
Glucosides. These Paris.

(Tschirch Handbk. Phcog. V.2. p. 1342.)

(The original article was not available.)

- - - - -

Melocchi, F. 1905

Influenza del succo di uva
scilla utilizzazime degli idiocarburì.

Lavori d. Cong. di med. int., 1904, Roma, V. 14.p. 335.
(Surg. Gen. Libr. Index, S.2.V. 19.p. 669.)

(The original article was not available.)

- - - - -

_____ 1905
Systematische Drogenuntersuchungen
im Dienste der Defektur.

Helpfenberger, Annalin p. _____
(Pharm. Ztg. 50 p. 835. Proc. Am. Pharm. Assoc. 54.p.752.)

Gives the amount of extract obtained by using different
solvents on various drugs, including Uva Ursi.

- - - - -

Caldwell, P. & Stevens, A.B. 1906

Percentages Under the Pure Food
and Drug Law.

Drug. Circ., 51. p: 319.
(Deg. Com. U.S.P., 1906.p. 450.)

Gives the amount of alcohol that should be used in pre-
paring the Fluidextract of Uva Ursi.

- - - - -

Farr, E.H. & Wright, R. 1906

Concentrated Infusions.

Chem. Drugg. 68. p. 252.

Gives a description of preparing concentrated infusions,
and how Bearberry may be reprecipitated with chloroformic
water satisfactorily.

- - - - -

Henkel, Alice. 1906
Wild Medicinal Plants of the U.S.

Bull. Bur. Plant. Ind. U.S. Dept. Agric. No. 89.p. 12.
(Dig. Comments U.S.P., 1906,p. 509.)

Gives the habitat, common names, uses, and parts used
of Uva Ursi.

- - - - -

Tunnmann, O. 1906
Folia Uva Ursi und ihre
Verwechslungen.

Pharm. Zeit. 51. p. 757.
(Anatom. Atlas. 2 ed. p. ___; Tschirch Hdbk. Phcog. V.2.p.
1342; Pharm. Centrahl., 47, p. 51; Zoinig Arzneidrogen,
V.1.p. 183.)

Tells of the leaves of Uva Ursi and its adulterants.

- - - - -

Coronedi, G. 1907
Intorno all uso del fermento
d'uva ursi in medicina.

Pamphlet Florence Chir.
(Riv. crit. de med. V.8.p. 687; Surg. Gen Libr., Index
S.2, V.19, p. 669.)

(The original article was not available.)

- - - - -

Beringer, G.M. 1908
Fluidglycerates

Proc. Am. Pharm. Assoc., 56, p. 1005.
(Dig. Comments U.S.P., p. 551.)

Outlines a formula for fluidglycerate of Uva Ursi.

- - - - -

Bourquelot, E.M. & Herissey, H. 1908.

Sur l'arbutine at quelques-
uns de ses derivis consideres au point
de vire de leur pouvoir rotatoere et,
de leur dedoublement par l'emulsine.

Jour. d. pharm. 27, p. 421.
(Tschirch, Hndbk. phcog. V.2.p. 1342.)

Determines the rotatory power of arbutin and some of its

derivatives. Also the effect of emulsin upon these same compounds.

- - - - -

Farwell, O.O.

1908

Adulterations and Substitutions
of Crude Drugs.

Merck's Rep. I. 17. p. 35.
(Digest Comments.U.S.P., p. 551.)

States that the leaves are official part of Uva Ursi and that sometimes the whole plant is used.

- - - - -

Fichtenholz, A.

1908.

Recherche de l'arbutine dans
les vegetaux.

Journ. d. Pharm. 28. p. 255.
(Tschirch. Hdbk. Phcog. V.2. p. 1342.)

Discusses the properties of Arbutin and lists its botanical sources.

- - - - -

Scoville, W.L.

1908

Permanence of Some Astringent
preparations.

Journ. Am. Pharm. Assoc. 1, p. 337.
(Dig. Com. U.S.P., p.479.)

An article concerning the preparation of Fluidextract of Uva Ursi and its stability with reference to its tannin content.

- - - - -

Rusby, H.H.

1909.

Federal Law in Relation to the U.S.P.

Pharm. Era., 42, p. 635. (Midl. Drugg. 43, p. 691;
Dig. Comments.U.S.P., p. 718.)

Article regarding the variation of Uva Ursi.

- - - - -

Zoinig, H.

1909

Folia Uvae Ursi

Die Arzneidrogen, V.1. p. 181.

Gives with some detail, pharmacopoeias the drug is official in, its common names, botanical origin, history, commercial appearance, whole and powdered, identity tests, constituents, uses, substitutions and adulterations and bibliography.

- - - - -

Bourquelot, E. & Fichtenholz, A. 1910

Arbutine et Methylarbutone caracteres distinction et recherche dans les vegetaux.

Journ. d. Pharm. 170. p. 104.
(Tschirch Hdbk. Phcog. V.2.p. 1342.)

Discuss the physical and chemical properties of arbutin~~x~~ and methylarbutine.

- - - - -

Osborne, O.T. 1910

Therapeutics

Suggestions for the pharmacopoeia of 1910.

Journ. Am. Med. Assoc., 54.p. 377.
(Dig. Comm. U.S.P., 1910, p.765.)

Asserts that uva ursi and its fluid extract should be omitted from the pharmacopoeia.

- - - - -

Saget, P. & Rajat, H. 1910

Les principes en immediato de l'uva ursi(ursine) dans les inflammatoires de l'appareil urinaire.

Centre Med. et Pharm. Gannat ,16.p. 196.
(Surg. Gen. Libr. Index.S.2,V.19,p.669.)

(The original article was not available.)

- - - - -

Fichtenholz, A. 1911

Application de la methode bio Chimique a l'analyse de la busserole.

Journ. de Pharm. et de chim., S.7.V.4.p.441.
(Surg. Gen. Libr. Index.S.2.V.19.p. 669.)

Subjects several samples of Uva Ursi leaves to hydro-
lizing action under varying conditions. The results are
tabulated.

- - - - -

Henkel, Alice 1911.
Plants Furnishing Medicinal
Leaves.

Bull. Bur. Plant. Ind. U.S. Dept. Agric. No. 219.p.20.
(Dig. Comments U.S.P., 1911,p. 663.)

Gives a description and several illustrations of Bearberry.

- - - - -

Holm, T. 1911.
Medicinal Plants of North America.

Merck's Re. I. 20, p. 95.
(Dig. Comments U.S.P.,1911.p. 663.)

Describes the microscopical structure of the stem, leaf
and petiole of Arctostaphylos Uva Ursi.

- - - - -

Lloyd, J.N. 1911.
Pharmacopoeial Vegetable Drugs.

Bull. Lloyd Libr. No. 18.p. 89.
(Dig. Comments U.S.P. 1911,p. 663.)

Tells of the value of Uva Ursi leaves in Europe at
one time and other historical data.

- - - - -

Reum, A.W. 1911.
The Purity of Drugs.

Prac. Pharm., 4. p. 456. (Dig. Com. U.S.P.,p. 765.)

List of percentages of parts of plants in official
drugs, including Uva Ursi.

- - - - -

Mannich, C. 1912
Ueber Arbutin und seine Synthese.

Arch. d. pharm., 250.p. 547.

(Dig. Comm. U.S.P. 1912, p. 479.)

A lengthy discussion of Arbutin and its synthesis.

- - - - -

Patch, E.L. 1912.
Report of Committee on Drug
Market.

Journ. Am. Pharm. Assoc. 2, p. 682.
(Dig. Comm. U.S.P., 1912, p. 500.)

The U.S.P. recognition of Uva Ursi.

- - - - -

Rusby, H.H. 1912.
Report of Committee on Drug
Market.

Journ. Am. Pharm. Assoc. 1. p. 504.
(Dig. Comm. U.S.P. 1912, p. 479.)

Discusses the addition of cut stems to the leaf drug.

- - - - -

Kebler, L.F. 1913.
Report of Committee on Drug
Market.

Jour. Am. Pharm. Assoc. V.2.p. 1107.
(Dig. Comments U.S.P., 1913.p. 500.)

Gives report of uva ursi in the drug market for that year
and tells of the impurity limit.

- - - - -

McWalter, J.C. 1913.
In praise of Uva Ursi.

Chem. & Drug. 33. p. 508.
(Dig. Com. U.S.P., 1913.p. 501.)

Tells of the medical value of uva ursi and how it can be
used to great advantage.

- - - - -

Thurston, A.Z. & Thurston, A.N. 1913.

Ash and moisture content of
powdered vegetable drugs.

Journ. Am. Pharm. Assoc., V.2.p. 476.

(Dig. Comm. U.S.P., 1913, p. 501.)

Data on the ash content of Uva Ursi.

- - - - -

Maines, E.L. 1914.
Uva Ursi Leaves.

Journ. Am. Pharm. Assoc., 3, p. 427.
(Dig. Comm. U.S.P., p. 497.)

Tells how to assay uva ursi leaves and gives percentages of tannin found by the assay.

- - - - -

Rippetoe, J.R. 1914.
Tabulation of Assays.

Am. Journ. Pharm. 86, p. 443.
(Dig. Com. U.S.P., 1914, p. 497.)

Gives percentage of constituents in Fluidextract of Uva Ursi.

- - - - -

_____ 1914.
Uva Ursi.

Meyer Bros. Drug. 35, p. 327.
(Dig. Com. U.S.P., 1914, p. 497.)

Uva Ursi is recommended as a substitute for Buchu.

- - - - -

_____ 1914.
Uva Ursi.

Journ. Am. Pharm. Assoc. 3, p. 410.
(Dig. Comm. U.S.P., 1914, p. 497.)

Note on the impurity limit, description and qualitative test.

- - - - -

_____ 1914.
Fluidextractum Uvae Ursi
U.S.P. IX.

Journ. Am. Pharm. Assoc. 3, p. 543 & Abstr. Prop. Changes, part 3, 1914, p. 20.
(Digest Comments. U.S.P. 1914, p. 497.)

Tells of menstruum used in making the Fluid Extract
of Uva Ursi.

- - - - -

Shippee, C.S & Fogde, A. 1917.

The Fruit of the Red Bearberry.

Chem. News. 117, p. 254.
(Dig. Comments. U.S.P., 1917, p. 347.)

Gives the constituents and ash content of the Red Bearberry.

- - - - -

Lloyd, J.U. 1921
Uva Ursi (Bearberry)

Origin and History Pharm. Veg. Drugs, Chemicals,
Preparations. V.1. p. 339.

Gives a brief description of the plant and the part used
and medicinal properties, with miscellaneous historical
data.

- - - - -

Ringer & Murrell, _____
Uva Ursi.

Med. Chir. Trans. 59. p. 389.
(Natl. Dispens. 3 ed. p. 1583;
Ibid 5 ed. p. 1680.)

(The original article was not available.)

- - - - -

Syme, E. _____
Arctostaphylos Uva Ursi

Botany V. 6 p. 21 t. 881.
(Bentley & Trimen-Med. Plts. V.3.p. 163.)

(The original article was not available.)

- - - - -

LIST OF JOURNALS CONSULTED

	<u>Volumes</u>	<u>Years</u>
American Druggist & Pharmaceutical Record	11 - 21	1884-1922
American Journal Pharmacy		1825-1921
Bulletin of Pharmacy	5 - 32	1891-1918
Canadian Druggist	11 - 21	1899-1922
Chemist	1 - 2	
Series 2	1 - 8	
" 3	1 - 6	
Digest of Comments		1905-1918.
Druggists Circular	28 - 36	1884-1892.
Eclectic Medical Journal	12 - 79	1853-1919
Meyer Brothers Druggist	9 - 42	- -
Midland Druggist	1 - 55	1899-1921
N.A.R.D. Notes	1 - 33	1902-1922
National Drug Clerk	1 - 9	1913-1921
National Druggist	6 - 52	1885-1922
New England Druggist	6 - 12	1893-1900
New Remedies	5 - 12	1876-1883
North Western Druggist	1 - 30	1899-1922
Pharmaceutical Era	1 - 54	1887-1921
Pharmaceutical Journal	1 - 18	1841&1842 to
" "	19 - 108	1858&1859 1860&1861 to 1922
Pharmacist & Chemist	1 - 18	- -
Practical Druggist	1 - 39	1888-1921
Proceedings of the American Pharmaceutical Association	7 59	1858-1911

List of Journals (Cont'd.)

	<u>Volumes</u>	<u>Years</u>
Southern Pharmaceutical Journal	1 - 14	1908-1922
Spatula	1 - 22	1894-1916 (no index)
Western Druggist	2 - 43	1882-1921
Yearbook of the American Pharmaceutical Association		1851-1922
Yearbook of the British Pharmaceutical Conference		1870-1922

- - - - -

HISTORY OF UVA URSI

In The

UNITED STATES PHARMACOPOEIA

1820 - 1910.

1820 p. 45.

Uva Ursi

Arbutus uva ursi W.11. 618

Uva Ursi

Bw. 1. 66

Folia. The leaves.

- - - - -

1830, N.Y. p. 64.

Uvae Ursi Folia

Arbutus Uva Ursi

Leaves of Bears' Whortleberry

Prop. Inodorous; taste, bitter and astringent; virtues extracted by water.

Med. Oper. Tonic, astringent, alterative. Dose in powder; grs. XV to ʒss.

- - - - -

1830, Philadelphia- p.27

Uva Ursi

Arbutus uva ursi W.ii. 618

Uva Ursi

Bw. i. 66.

Folia The leaves

- - - - -

1840 - p. 39

Uva Ursi

Uva Ursi

The leaves of Arbutus Uva Ursi.

- - - - -

1850 - p. 44

Uva Ursi

Uva UrsiThe leaves of Arctostaphylos Uva Ursi (Sprengel, Syst.ii-287)

- - - - -

1860 - p. 54

Uva Ursi

Uva UrsiThe leaves of Arctostaphylos Uva Ursi (Sprengel, Syst.ii- 287)

- - - - -

1870 - p. 54

Uva Ursi

Uva Ursi

The leaves of Arctostaphylos Uva Ursi(Sprengel,Syst.,ii-287)

- - - - -

1880 - p.372

Uva Ursi

Uva Ursi

(Bearberry)

The leaves of Arctostaphylos Uva-Ursi Sprengel(Nat. Ord., Ericaceae).

Nearly sessile, obovate or oblong-spatulate, about four-fifths of an inch(2 centi) meters long, obtuse, slightly revolute on the margin, smooth, glossy on the upper surface, paler and reticulate on the lower surface, of a faint, hay-like odor, and a strongly astringent, somewhat bitter taste.

Preparation: Extractum Uvae Ursi Fluidum.

- - - - -

1890 - p. 445

Uva Ursi

Uva Ursi

(Bearberry)

The leaves of Arctostaphylos Uva Ursi(Linne) Sprengel (nat. ord. Ericaceae.)

Very short-stalked, obovate or ablong-spatulate, coriaceous, from 15 to 20 Mm. long, and 5 to 8 mm. broad, obtuse, slightly revolute on the margin, upper surface with depressed veins; lower surface distinctly reticulate; odor faint, hay-like, taste strongly astringent, and somewhat bitter.

Preparations: Extraction Uvae Ursi. Extractum Uvae Ursi Fluidum.

- - - - -

1900 - p. 497

Uva Ursi

Uva Ursi

The dried leaves of Arctostaphylos Uva-Ursi(Linne) Sprengel (Fam. Ericaceae.)

Obovate or oblong-spatulate, 15 to 30 Mm. long, obtuse, slightly revolute on the margin, tapering into a very short and stout petiole, coriaceous; upper surface dark green, finely reticulate; lower surface slightly pubescent; odor slight; taste strongly astringent and somewhat bitter.

Average dose- 2 gm.(30 grains.)

- - - - -

Uva Ursi

Uva Ursi

(Bearberry).

The dried leaves of Arctostaphylos Uva Ursi(Linne) Sprengel(Fam. Ericaceae)without the presence or admixture of more than 5 per cent of stems or other foreign matter.

Usually more or less entire, laminae obovate or oblong-spatulate, from 12 to 30 mm.in length and from 5 to 13 mm. in breadth; summits obtuse or rounded; margins entire, slightly revolute; bases cuneate, tapering into short, stout petioles; upper surface dark green, glabrous and shiny, finely reticulate; under surfaces yellowish-green and slightly pubescent, especially on the midribs; coriaceous, fracture short; odor aromatic, tea-like; taste astringent and somewhat bitter.

The powder is olive green; under the microscope it shows irregular fragments; epidermal cells polygonal, those of the lower surface showing broadly elliptical, stomata about 0.035 in length, surrounded by from 5 to 8 neighboring cells; cells of mesophyll with chloroplastids and frequently irregular masses of a carbo-hydrate; fragments of fibro-vascular bundles with spiral tracheae associated with narrow, strongly lignified schlerenchymatous fibers and frequently also with crystal fibers with monoclinic prisms, from 0.006 to 0.015 mm. in diameter; numerous fragments made up of cells having a yellowish-brown content which are colored a bluish-black upon the addition of ferric chloride T.S.

Place 0.1 gm. of powdered Uva Ursi on a watch crystal and cover with another watch crystal and gently heat the powder; a crystalline sublimate forms, consisting of long rods and featherlike aggregates which polarize light with a brilliant play of color.

Macerate 1 gm. of powdered Uva Ursi with 10 mls of boiling water, shake the mixture occasionally until cold and

then filter it; the filtrate yields a grayish-purple precipitate upon the addition of a few drops of ferrous sulphate T.S.

Preparation-Fluidextractum Uvae Ursi.

Average dose- Metric, 2 gm. --Apothecaries, 30 grains.

- - - - -

SUMMARY OF U. S. P. DATE ON UVA URSI

Official:--

'20 '30a '30b '40 '50 '60 '70 '80 '90 '10

Official Latin Title:--

Uva Ursi '20 '30b '40 '50 '60 '70 '80 '90 '00 '10
Uvae Ursi Folia '30a

Official English Title:--

Uva Ursi '20 '30a '30b '40 '50 '60 '70 '80 '90 '00
'10.

Abbreviation:--

None

Synonym:--

Leaves of Bears Whortleberry '30a
(Bearberry) '80 '90 '10

Botanical Name:--

Arbutus uva ursi W ii 618 '20 '30b
Bw 1 . 66

Arbutus Uva Ursi '30.

Family:--

(Nat. Ord., Ericaceae) '80
(Fam. Ericaceae) '00 '10

Part Used:--

Folia. The leaves. '20 '30b '40 '50 '60 '70 '80 '90

The dried leaves of -- '00 '10

Description:--

None in '20 '30a '30b '40 '50 '60 '70.

Nearly sessile, obovate or oblong-spatulate, about four-fifths of an inch (2 centi meters) long, obtuse, slightly revolute on the margin, smooth, glossy on the upper surface, paler and reticulate on the lower surface, of a faint, hay-like odor and a strongly, astringent, somewhat bitter taste. '80.

Very short-stalked, obovate or oblong-spatulate, coriaceous from 15 to 20 mm. long, and 5 to 8 mm. broad, obtuse, slightly revolute on the margin, upper surface with depressed veins; lower surface distinctly reticulate; odor

faint, hay-like; taste strongly astringent, and somewhat bitter. '90.

Obovate or oblong-spatulate, 15 to 30 mm. long, obtuse slightly revolute on the margin, tapering into a very short and stout petiole, coriaceous; upper surface dark green, finely reticulate; lower surface slightly pubescent; odor slight, taste strongly astringent and somewhat bitter. '00.

Usually more or less entire, laminae obovate or oblong spatulate, from 12 to 30 mm. in length and from 5 to 13 mm. in breadth; summits obtuse or rounded; margins entire, slightly revolute; bases cuneate, tapering into short, stout petioles; upper surfaces dark green, glabrous and shiny, finely reticulate; under surfaces yellowish-green and slightly pubescent, especially on the midribs; coriaceous fracture short; odor aromatic; tea-like; taste astringent and somewhat bitter.

The powder is olive green; under the microscope it shows irregular fragments, epidermal cells polygonal, those of the lower surface showing broadly elliptical stomata about 0.035 mm. in length, surrounded by from 5 to 8 neighboring cells; cells of mesophyll with chloroplastids and frequently irregular masses of a carbo-hydrate; fragments of fibro-vascular bundles with spiral tracheae associated with narrow strongly lignified schlerenchymatous fibers and frequently also with crystal fibers with monoclinic prisms, from 0.006 to 0.015 mm. in diameter; numerous fragments made up of cells having a yellowish-brown content which are colored a bluish-black upon the addition of ferric chloride T.S.

Place 0.1 gms. of powdered Uva Ursi on a watch crystal and cover with another watch crystal and gently heat the powder; a crystalline sublimate forms, consisting of long rods and feather-like aggregates which polarizes light with a brilliant play of colors.

Macerate 1 gm. of powdered Uva Ursi with 10 mils of boiling water, shake the mixture occasionally until cold and then filter it; the filtrate yields a graying purple precipitate upon the addition of a few drops of ferrous sulphate T.S. '10.

Preparations:-

Extractum Uvae Ursi Fluidum. '80 '90.

Extractum Uvae Ursi. '90.

Fluidextractum Uvae Ursi '10.

Medical Operation:-

Tonic, astringent, alterative. '30a.

Ash Content:-

None

Dose:-

Dose in powder; grs. XV to 3ss. '30a

Average dose - 2 gm. (30 grains)

Average Dose-Metric, 2 gm.-Apothecaries, 30 grains '10.

APPROVED W. O. Richtmann.

Asst. Prof. of Pharmacology.