Deglycyrrhizinated licorice - Buccal

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DEGLYCYRRHIZINATED LICORICE Buccal Help on accessing alternative formats, such as Portable Document Format (PDF), Microsoft Word and PowerPoint (PPT) files, can be obtained in the alternate format help section. (PDF Version - 77 KB) This monograph is intended to serve as a guide to industry for the preparation of Product Licence Applications (PLAs) and labels for natural health product market authorization. It is not intended to be a comprehensive review of the medicinal ingredient. Notes Text in parentheses is additional optional information which can be included on the PLA and product label at the applicant's discretion. The solidus (/) indicates that the terms and/or statements are synonymous. Either term or statement may be selected by the applicant. Date October 30, 2018 Proper name(s), Common name(s), Source material(s) Table 1. Proper name(s), Common name(s), Source material(s) Proper name(s) Common name(s) Source material(s) Proper name(s) Part(s) Deglycyrrhizinated licorice Deglycyrrhizinated licorice DGL Glycyrrhiza glabra Glycyrrhiza inflata Glycyrrhiza uralensis Root Root and stolon Root and rhizome Root, rhizome and stolon References: Proper name: NHPID 2018; Common names: Pizzorno and Murray 2006, Blumenthal et al. 2000; Source materials: USDA 2018, USP 32 2009, BP 2008, Ph. Eur. 2008. Route of Administration Buccal Dosage Form(s) This monograph excludes foods or food-like dosage forms as indicated in the Compendium of Monographs Guidance Document. Acceptable dosage forms by age group: Children 2 years: The acceptable dosage forms are limited to emulsion/suspension and solution/liquid preparations (Giacoia et al. 2008; EMEA/CHMP 2006). Children 3-5 years: The acceptable dosage forms are limited to emulsion/suspension, powders and solution/liquid preparations (Giacoia et al. 2008; EMEA/CHMP 2006). Children 6-11 years, Adolescents 12-17 years, and Adults 18 years and older: The acceptable dosage forms for this age category and specified route of administration are indicated in the Compendium of Monographs Guidance Document. Note Dosage forms must be suited for buccal administration which allow for direct contact between the affected tissue and the medicinal ingredient (i.e. liquid preparations, gargles, and mouthwashes. Use(s) or Purpose(s) (Used in Herbal Medicine to) help(s) relieve minor inflammations of mucous membranes of the mouth (such as canker sores) (demulcent) (Pizzorno and Murray 2006; Bruneton 1999; Das et al. 1989). Dose(s) Subpopulation(s) As specified below. Quantity(ies) Method of preparation: Dry extract Table 2. Dose information for Deglycyrrhizinated licorice extract Subpopulation(s) Deglycyrrhizinated licorice extract (milligram) Minimum/single dose Maximum/single dose Frequency Minimum Maximum Children 1 2-4 years 33 mg 190 mg 4 4 5-9 years 50 mg 285 mg 4 4 10-11 years 100 mg 570 mg 4 4 Adolescents 1 12-14 years 100 mg 570 mg 4 4 15-17 years 200 mg 1140 mg 4 4 Adults 2 18 years and older 200 mg 1140 mg 4 4 Table 2 Footnotes Table 2 Footnote 1 Children and adolescent doses were calculated as a fraction of the adult dose (JC 2018). The use of licorice in children and adolescents is supported by the following references: McIntyre 2005; Schilcher 1997; Bove 1996. Return to Table 2 footnote 1 referrer Table 2 Footnote 2 Adult doses are supported by Pizzorno and Murray 2006 and Das et al. 1989. Return to Table 2 footnote 2 referrer Direction(s) for use For each milligram (1 mg) of DGL extract, mix with 1 milliliter of warm water (Das et al. 1989). Rinse and/or gargle, 4 times per day (Das et al. 1989). Duration(s) of Use No statement required. Risk Information Caution(s) and warning(s) Consult a health care practitioner/health care provider/health care professional/doctor/physician if symptoms persist or worsen. Contraindication(s) No statement required. Known adverse reaction(s) No statement required. Non-medicinal ingredients Must be chosen from the current Natural Health Products Ingredients Database (NHPID) and must meet the limitations outlined in the database. Storage conditions No statement required. Specifications The finished product specifications must be established in accordance with the requirements described in the Natural and Non-prescription Health Products Directorate (NNHPD) Quality of Natural Health Products Guide. The medicinal ingredient must comply with the requirements outlined in the NHPID. The finished product must not contain more than 3% of the original quantity of glycyrrhizic acid found in the source material (Bradley 1992). References Cited Blumenthal M, Goldberg A, Brinkmann J, editors. 2000. Herbal Medicine: Expanded Commission E Monographs. Boston (MA): Integrative Medicine Communications. Bove M. 1996. An Encyclopedia of Natural Healing for Children and Infants. New Canaan (CT): Keats Publishing Incorporated. BP 2008: British Pharmacopoeia Commission. 2007. British Pharmacopoeia 2008, Volume 2. London (GB): The Stationary Office. Bruneton J. 1999.

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Preterm birth and licorice consumption during pregnancy. American Journal of Epidemiology 156(9):803-805. Sweetman S, editor. 2009. Martindale: The Complete Drug Reference. London (GB): Pharmaceutical Press. [Accessed 2009 August 6]. Available from: http://www.medicinescomplete.com/mc/martindale/current/2021-1.htm Tewari SN, Trembalowicz FC. 1968. Some experience with deglycyrrhizinated liquorice in the treatment of gastric and duodenal ulcers with special reference to its spasmolytic effect. Gut 9:48-51. Report a problem on this page Date modified: 2019-03-01

MEDICINAL INGREDIENT(S)

Must be chosen from the current Natural Health Products Ingredients Database (NHPID) and must meet the limitations outlined in the database. Storage conditions No statement required.

DOSAGE FORM(S)

Acceptable dosage forms by age group: Children 2 years:The acceptable dosage forms are limited to emulsion/suspension and solution/liquid preparations (Giacoia et al. 2008; EMEA/CHMP 2006). Children 3-5 years:The acceptable dosage forms are limited to emulsion/suspension, powders and solution/liquid preparations (Giacoia et al. 2008; EMEA/CHMP 2006). Children 6-11 years, Adolescents 12-17 years, and Adults 18 years and older:The acceptable dosage forms for this age category and specified route of administration are indicated in the Compendium of Monographs Guidance Document. Note Dosage forms must be suited for buccal administration which allow for direct contact between the affected tissue and the medicinal ingredient (i.e. liquid preparations, gargles, and mouthwashes.

DOSE(S)

Return to Table 2 footnote1referrer

RISK INFORMATION

Caution(s) and warning(s) Consult a health care practitioner/health care provider/health care professional/doctor/physician if symptoms persist or worsen. Contraindication(s) No statement required. Known adverse reaction(s) No statement required.

NON-MEDICINAL INGREDIENTS

Must be chosen from the current Natural Health Products Ingredients Database (NHPID) and must meet the limitations outlined in the database. Storage conditions No statement required.

STORAGE CONDITION(S)

No statement required.

SPECIFICATIONS

The finished product specifications must be established in accordance with the requirements described in the Natural and Non-prescription Health Products Directorate (NNHPD) Quality of Natural Health Products Guide. The medicinal ingredient must comply with the requirements outlined in the NHPID. The finished product must not contain more than 3% of the original quantity of glycyrrhizic acid found in the source material (Bradley 1992).

REFERENCES

Route of Administration Buccal

me(s)	Common name(s)	Source material(s)	
e(s)	Part(s)		
inated licorice	Deglycyrrhizinated licoriceDGL	Glycyrrhiza glabraGlycyrrhiza inflataGlycyrr	ni Rao ot Riconsiand stolon Root and

Subpopulation(s)	Deglycyrrhizinated licorice extract (n	nilligram)		
Minimum/single dose	Maximum/single dose	Frequency		
Minimum	Maximum			
Children1	2-4 years	33 mg	190 mg	4
5-9 years	50 mg	285 mg	4	4
10-11 years	100 mg	570 mg	4	4
Adolescents1	12-14 years	100 mg	570 mg	4
15-17 years	200 mg	1140 mg	4	4
Adults2	18 years and older	200 mg	1140 mg	4
Table 2 FootnotesTable 2 Footnote 1Childre	en and adolescent doses were calculated as a	fraction of the	dult dose (J	2