NATURAL HEALTH PRODUCT

BETA-GLUCAN

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 the statements are synonymous. Either term or statement may be selected by the applicant.

Date

September 27, 2013

Proper name(s)

Beta-glucan (Charlton et al. 2012; EFSA 2011a,b,2010; Queenan et al. 2007; Braaten et al. 1994; Uusitupa et al. 1992)

Common name(s)

Beta-glucan (Charlton et al. 2012; EFSA 2011a,b,2010; Queenan et al. 2007; Braaten et al. 1994; Uusitupa et al. 1992)

Source material(s)

- *Avena sativa* L. (oat) (USDA 2008) seed and/or seed bran (Charlton et al. 2012; Queenan et al. 2007)
- *Hordeum vulgare* L. (barley) (USDA 2010) seed and/or seed bran (Queenan et al. 2007)

Route(s) of administration

Oral

Dosage form(s)

- The acceptable pharmaceutical dosage forms include, but are not limited to capsules, chewables (e.g. gummies, tablets), liquids, powders, strips or tablets.
This monograph is not intended to include foods or food-like dosage forms such as bars, chewing gums or beverages.

**Use(s) or Purpose(s)** Statement(s) to the effect of

- Provides support for healthy (postprandial) glucose metabolism (within two hours after a meal) (EFSA 2011a,b; Ulmius et al. 2011; Granfeldt et al. 2008; Panahi et al. 2007; Biorklund et al. 2005; Kabir et al. 2002).
- Helps improve (postprandial) glucose metabolism (within two hours after a meal) (EFSA 2011a,b; Ulmius et al 2011; Granfeldt et al. 2008; Panahi et al. 2007; Biorklund et al. 2005; Kabir et al. 2002).
- Source of fiber for the maintenance of good health (CFIA 2012; IOM 2005).
- Helps support and maintain a healthy digestive system (CFIA 2012; IOM 2005).

**Dose(s)**

**Subpopulation(s)**

Adults (≥ 18 years)

**Quantity(ies)**

2-10 g beta-glucan, per day (Charlton et al. 2011; EFSA 2011a,b,2010; AbuMweiss et al. 2010; Queenan et al. 2007; IOM 2005; Johnston et al. 1998; Braaten et al. 1994; Torronen et al. 1992; Uusitupa et al. 1992).

**Directions for use**

No statement required.

**Duration of use**

No statement required.

**Risk information**

**Caution(s) and warning(s)**
No statement required.

**Contraindication(s)**

No statement required.

**Known adverse reaction(s)**

No statement required.

**Non-medicinal ingredients**

Must be chosen from the current NHPD *Natural Health Products Ingredients Database* (NHPID) and must meet the limitations outlined in the database.

**Storage conditions**

Statement(s) to the effect of

Preserve in well-closed containers (USP 35).

**Specifications**

- The finished product specifications must be established in accordance with the requirements described in the NHPD *Quality of Natural Health Products Guide*.
- The medicinal ingredient must comply with the requirements outlined in the *Natural Health Products Ingredients Database* (NHPID). In addition, the medicinal ingredient may comply with the specifications outlined in the United States Pharmacopeia monograph Colloidal Oatmeal (USP 35).

**References cited**


References reviewed


Bays H, Frestedt JL, Bell M, Williams C, Kolberg L, Schmelzer W, Anderson JW. Reduced viscosity Barley β-Glucan versus placebo: a randomized controlled trial of the effects on insulin


Brinker 2010: Brinker F. Final updates and additions for Herb Contraindications and Drug Interactions, 3rd edition, including extensive Appendices addressing common problematic conditions, medications and nutritional supplements, and influences on Phase I, II & III metabolism with new appendix on botanicals as complementary adjuncts with drugs. [Internet]. Sandy (OR): Eclectic Medical Publications. [Updated July 13, 2010; Accessed 2012 April 19]. Available from: http://www.eclecticherb.com/emp/updatesHCDI.html


