Dear User,

welcome to *OptiFeed* Program, a program used for creating, balancing and optimizing compound feeds and premixes recipes.

Preparing an *OptiFeed* recipe is simple and intuitive – it is enough to select ingredients and nutrients and determine the ranges of their required contents. To this end, you can use the sample database of ingredients and nutrients supplied with the program, which we will successively update and expand, or use your own database. An advanced mathematical programming engine included in the program is concerned with difficult task of balancing and optimizing recipes.

In the event of any problems, we suggest you look into the help file, accessed by pressing F1. In order to avoid them, we suggest you read a short chapter entitled Operating basics.

You will obtain additional assistance concerning licensing, technical issues, or nutrition by contacting us as indicated within the window opened using HELP | About command.

We wish you a pleasant use of the program and greatest satisfaction and cost savings resulting from use of balanced and optimal compound feeds.

Yours sincerely,

OptiFeed program authors

The software runs on (C) Microsoft .NET 4.

Basic system requirements:

PC with Microsoft Windows: XP SP3, Vista SP1, 7, 8, 8.1, or 10, and Microsoft Internet Explorer web browser (5.01 or higher). Other system components necessary to use the program, i.e.: Windows Installer 4.5, Microsoft .NET Framework 4 as well as Microsoft Solver Foundation are installed, if necessary, as part of the installation process. The required minimum screen resolution is 1024x768. The minimum recommended screen resolution is 1366x768.

The database of nutrients, ingredients, and nutritional recommendations contained in the program is purely illustrative. While the authors undertook every effort to ensure it is correct, however, they do not take any responsibility for the consequences of its use.

The database was prepared based on generally available sources, in particular:

1. Zalecenia żywieniowe i wartość pokarmowa pasz. Normy żywienia drobiu – Collective work edited by Stefania Smulikowska and Andrzej Rutkowski. Jan Kielanowski Institute of Animal Physiology and Nutrition of the Polish Academy of Sciences – 2005.
2. Tables of composition and nutritional value of feed materials – D. Sauvant, J.-M. Perez, G. Tran – INRA 2004.
3. AMINODat® 4.0. Evonik Degussa GmbH – 2010.
4. Feedstuffs Ingredient Analysis Table: 2014 edition, http://feedstuffs.com
5. Feedipedia – Animal feed resources information system, http://www.feedipedia.org
6. Zalecenia żywieniowe i wartość pokarmowa pasz dla świń. Normy żywienia świń – Collective work edited by Eugeniusz R. Grela and Jacek Skomiała. Jan Kielanowski Institute of Animal Physiology and Nutritionf the Polish Academy of Sciences – 2014.
7. Tabele składu chemicznego i wartości pokarmowej pasz. Institute of Animal Production in Krakow PIB. Kraków-Balice – 2010.

OptiFeed uses open linear programming system lp_solve.

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lpsolve citation data
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Description     : Open source (Mixed-Integer) Linear Programming system
Language        : Multi-platform, pure ANSI C / POSIX source code, Lex/Yacc
based parsing
Official name   : lp_solve (alternatively lpsolve)
Release data    : Version 5.5.2.0 dated 12 Aug 2010
Co-developers   : Michel Berkelaar, Kjell Eikland, Peter Notebaert
Licence terms   : GNU LGPL (Lesser General Public Licence)
Citation policy : General references as per LGPL
                  Module specific references as specified therein
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Version of help file: 1.0.2.8.

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