

Foodomics Database and Dietary Supplement Label Database

For Precision Ketogenic Therapy, documented precise composition of supplements is necessary to implement the PKT diet prescription. We gather this nutrient information by physically going to stores and recording nutrition data labels. However, manufacturers may make changes in their products over time, so these nutrient runs need to be done periodically to keep the database updated. The Dietary Supplement Label Database (DSLDB) developed by the Office of Dietary Supplements (ODS) at the National Institutes of Health (NIH), catalogs all information printed on labels of dietary supplement products sold in the United States. Our goal was to determine whether the information on the ODS website accurately reflects the data obtained from local stores. If this held true, the ODS website could be used as an alternative and reduce the need to continuously collect foodomics data from local stores.

We gathered data in January and February 2022 from products in local markets. Comparison of these data with what is in the ODS database showed differences in nutrient values for several products. This suggests that the ODS website cannot be the only source of vitamin and mineral data because it is crucial to have the exact nutrient amount that patients would be consuming from the products purchased in stores. However, the ODS website can be a reliable resource to find new supplement options that may be available in local markets when our frequently used supplements do not meet a patient's needs.

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