

METHODS AND SYSTEM FOR PROCESSING LIPID CONTENTS OF AT LEAST
ONE OIL SAMPLE AND SIMULATING AT LEAST ONE TRAINING SAMPLE,
AND FOR PREDICTING A BLENDING FORMULA, AMONGST OTHERS

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ABSTRACT

According to embodiments, a method for processing lipid contents of at least one oil sample and simulating at least one training sample is provided. The method includes receiving a first dataset of values associated with lipid contents of the at least one oil sample; applying a multivariate mixture model to the first dataset of values to simulate an intermediate dataset; and simulating the at least one training sample based on at least part of the simulated intermediate dataset. According to further embodiments, a method for predicting the blending formula is also provided. The prediction method includes receiving a dataset of values associated with lipid contents of a blended oil sample; and processing the dataset using a single prediction model capable of generating a prediction of at least two constituent oils in the blended oil sample. A system therefor is also described.

FIG. 1A