

Measurement of Lactose in Lactose-Free & Low-Lactose Products



Lactose Assay Kit - Sequential/High Sensitivity

K-LOLAC

700004314

Growing awareness of lactose intolerance has contributed to increased interest in lactose-free and low-lactose products. To meet food labeling requirements, accurate testing for lactose is essential. This helps ensure product integrity and supports informed choices by preventing the risk of adverse reactions and potential mislabeling claims.

Regulatory bodies such as the Food and Drug Administration (FDA) and the European Food Safety Authority (EFSA) enforce strict regulations to help ensure transparency and protect consumers.

To comply with these regulations, **manufacturers must use highly sensitive and officially validated testing methods.** Reliable testing for lactose and low-lactose content supports regulatory compliance, builds consumer trust, and addresses the growing demand for safe lactose-free and low-lactose products.

Our Lactose Assay Kit - Sequential/High Sensitivity (K-LOLAC) accurately measures lactose concentrations in dairy products, foods, and beverages including infant formula.

K-LOLAC is the world's first sequential enzymatic assay for lactose and is the only enzymatic method that has been validated through a multi-laboratory evaluation as AOAC 2020.08. It utilizes a highly selective enzyme that delivers accurate results for low-lactose and lactose-free products.

Benefits of using our K-LOLAC kit:

Versatile: It has been validated with a wide range of dairy and non-dairy food matrices, thereby effectively measuring lactose in products made with different lactase enzymes, as well as those with standard lactose content.

Sensitive: It can accurately quantify lactose at the low limits (LOD/LOQ*) required for labelling lactose-free products, the method includes a pretreatment step to remove high levels of free D-glucose, enhancing sensitivity for low-lactose and lactose-free products.

Selective: It utilizes a unique enzyme that hydrolyses lactose with high selectivity, minimising the risk of overestimation and supporting accurate results.

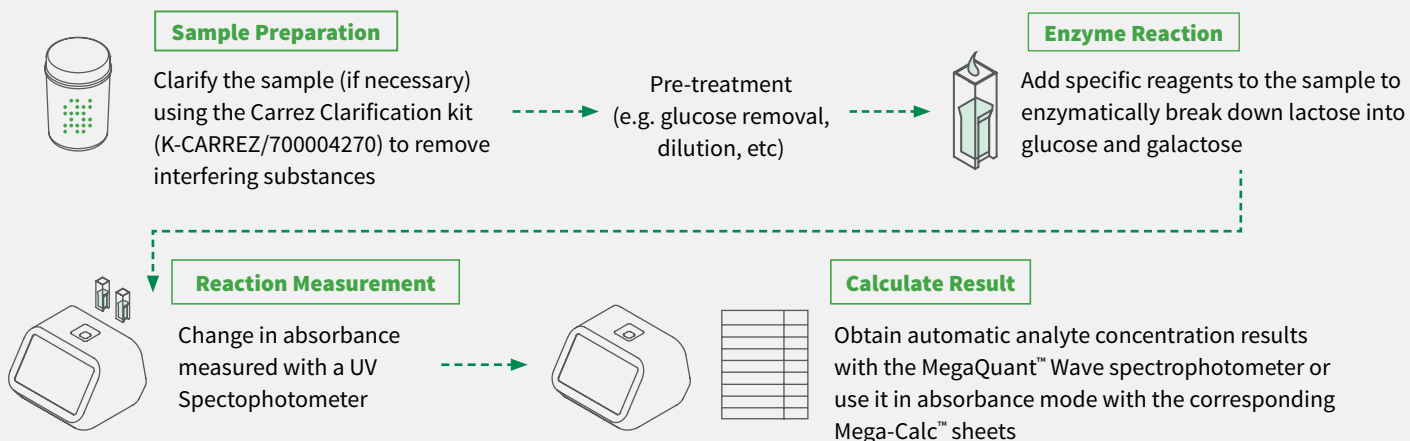
*LOD - Limit of Detection, LOQ - Limit of Quantification

LACTOSE ASSAY KIT (K-LOLAC)

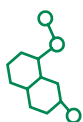
For the measurement of lactose in low-lactose and lactose-free products

Please refer to the product instructions sheet before completing the workflow

Example Workflow



Why Choose Our Megazyme® Range?



High-purity Enzymes



International Validated Methods



Excellent Technical Support

Scan here for
Product Information



Scan here for
Technical Support

