



## Product Information Sheet

# Lipase NL-GX

An Enzyme Supplies liquid lipase for laundry detergents

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### INTRODUCTION

Lipase NL-GX is an alkaline liquid lipase for use in biological detergent products. The product acts by hydrolyzing insoluble fat & oil soilings such as those resulting from frying fats, salad oil, butter, gravy, soup, human sebum and cosmetics. Lipase NL-GX hydrolyses fats by cleaving the ester bonds of triglyceride molecules producing mono and di-glycerides, glycerol and free fatty acids which can then be readily removed from fabrics. Lipase NL-GX is particularly effective at first wash removal of fatty stains in laundry applications.

Lipase NL-GX is a lipase derived from a genetically modified strain of *Aspergillus spp.*

The activity of Lipase NL-GX is expressed in Kilo Lipase Units (KLU), and contains no significant side-activities.

### ENZYME PROPERTIES

Lipase NL-GX is active over a broad range of pH values from 7 – 12, with an optimum of pH 11. The enzyme is also active over a broad temperature range from 10° C to 70° C, with an optimum performance at 35° C.

### TYPICAL CHARACTERISTICS

Activity minimum 100 KLU/g  
Appearance – brown liquid  
Bulk density 1.2g/ml

## **USE IN DETERGENT FORMULATIONS**

Recommended dose rate in detergent formulations is 0.1 – 0.5% by formulation, but determination of optimum dose should be based upon wash conditions, detergent formulation, detergent dose/wash & level of cleaning performance desired.

## **PACKAGING**

Lipase NL-GX is available in bulk and in 25Kg jerry cans.

## **STORAGE STABILITY**

Lipase NL-GX has excellent long-term storage properties. To maintain optimum activity, store at moderate temperatures (below 25°C), in the original containers and with the lid closed.

## **SAFETY AND ENZYME HANDLING**

Inhalation of aerosols from liquid enzymes should be avoided. Open in a well-ventilated environment. In case of accidental spillage or contact with skin/eyes, promptly rinse with water for at least 15 minutes. For more detailed information please refer to the Material Safety Data Sheet for this product

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