

## ENZYMES

# Diacetinase

**ORIGIN** *Bacillus subtilis*

**CAT#** 70-6304-01

### SPECIFICATIONS

<b>Appearance</b>	Colourless to yellowish liquid
<b>Activity</b>	0.228 U/mg to 0.633 U/mg liquid at 37°C
<b>Protein</b>	< 7.4 mg/mL
<b>Insolubles</b>	Colourless to yellow, clear solution. May contain a few small particles.
<b>pH</b>	6.7-7.2
<b>Contaminants</b>	<b>Glucose Oxidase</b> <0.002 U/mg liquid <b>Cholesterol Esterase</b> <0.01% by activity

### ASSAY PRINCIPLE

Diacetinase catalyses the following reaction:



Diacetinase activity is measured using pH-stat potentiometry. The rate of fatty acid formation is monitored by titration with sodium hydroxide at a constant pH.

### APPLICATION

Used in the formulation of Lipase testing reagents.

### UNIT DEFINITION

One unit of activity is defined as the amount of enzyme that will catalyze the release of 1.0 micromole of fatty acid per minute at 37°C under the standard assay method conditions.

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