

## Enzyme Data

<b>BCC-Nr.</b>	<b>009</b>																								
<b>Enzyme</b>	<b>Lipase</b>																								
<b>EC-No.</b>	<b>3.1.1.3</b>																								
<b>T<sub>opt</sub></b>	60°C (recommended 30-70°C)																								
<b>pH<sub>opt</sub></b>	8,5 (recommended 7-11)																								
<b>Stability</b>	t <sub>1/2</sub> (60°C) = 20 min																								
<b>Activity and substrate specificity</b>	42 U/mg (pNP laurate) prefers substrates >C10, highest activity C16/C18																								
<b>Additives</b>	solvent tolerance (after incubation in 30% solvent) <table border="1"><thead><tr><th>Detergent</th><th>rel. activity [%], 0 h</th><th>rel. activity [%]after 1 h</th></tr></thead><tbody><tr><td>none</td><td>100</td><td>100</td></tr><tr><td>Methanol</td><td>101</td><td>108</td></tr><tr><td>Ethanol</td><td>130</td><td>97</td></tr><tr><td>2-Propanol</td><td>107</td><td>76</td></tr><tr><td>Aceton</td><td>102</td><td>72</td></tr><tr><td>DMF</td><td>129</td><td>107</td></tr><tr><td>DMSO</td><td>120</td><td>105</td></tr></tbody></table> <p>- inhibited by EDTA and AgNO<sub>3</sub> (1 mM) - requires Ca<sup>2+</sup> for enhanced activity</p>	Detergent	rel. activity [%], 0 h	rel. activity [%]after 1 h	none	100	100	Methanol	101	108	Ethanol	130	97	2-Propanol	107	76	Aceton	102	72	DMF	129	107	DMSO	120	105
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