

## Enzyme Data

<b>BCC-Nr.</b>	<b>008</b>																								
<b>Enzyme</b>	<b>Esterase</b>																								
<b>EC-No.</b>	<b>3.1.1.1</b>																								
<b>T<sub>opt</sub></b>	75°C (recommended 40-80°C)																								
<b>pH<sub>opt</sub></b>	10 (recommended 8-11)																								
<b>Stability</b>	residual activity after 1 h at 85°C: 88%																								
<b>Activity and substrate specificity</b>	1,85 U/mg (pNP laurate) prefers substrates up to C12, highest activity with C6																								
<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>113</td><td>98</td></tr><tr><td>Ethanol</td><td>110</td><td>94</td></tr><tr><td>2-Propanol</td><td>106</td><td>81</td></tr><tr><td>Aceton</td><td>79</td><td>78</td></tr><tr><td>DMF</td><td>86</td><td>56</td></tr><tr><td>DMSO</td><td>100</td><td>89</td></tr></tbody></table> <p>- not influenced by most cations and detergents</p> <p>- inhibited by Brij<sup>®</sup> 35 and Tween80</p>	Detergent	rel. activity [%], 0 h	rel. activity [%]after 1 h	none	100	100	Methanol	113	98	Ethanol	110	94	2-Propanol	106	81	Aceton	79	78	DMF	86	56	DMSO	100	89
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