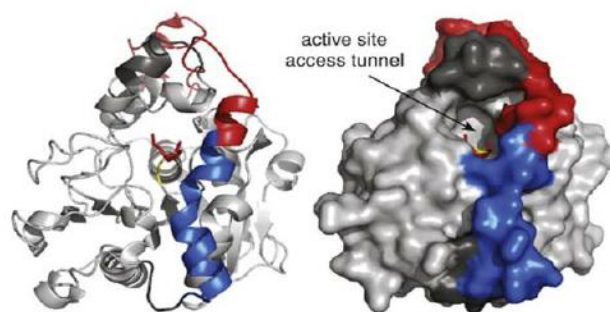


CANDIDA ANTARCTICA

SCIENTIFIC CLASSIFICATION	
Kingdom	Fungi
Phylum	Ascomycota
Class	Saccharomycetes
Order	Saccharomycetales
Family	Saccharomycetaceae
Genus	Candida
Species	C.antarctica



(Structure of Candida Antarctica lipase B shown as ribbon and surface representation)

Candida antarctica is a yeast species in the genus Candida. Candida antarctica is a source of industrially important lipases. Immobilized Candida antarctica lipase can be used to catalyze the regioselective acylation of flavonoids or the direct acetylation with phenolic acids. The mannosylerythritol lipid (MEL), a glycolipid surfactant from Candida Antarctica, has demonstrated antimicrobial activity particularly against Gram-positive bacteria. Candida antarctica lipase B (CALB), a serine hydrolase, displays enantioselectivity toward secondary alcohols. The two lipases most commonly used in sugar esters synthesis are those from Thermomyces lanuginosus (formerly Humicola lanuginosa) and Candida antarctica B.