Supplemental data

Table 1.

Step	*Volume of fraction (ml)*	*Concentration (mg/ml)*	*Total amount (mg)*	*Activity (units)*	*Specific activity (units/mg protein)*	*Yield (%)*	*Purification factor fold*
Cell lysate	*100*	*13.5*	*1350*	*22.3*	*0.0165*	*100*	*1.0*
Protamine sulfate	*100*	*5.63*	*563*	*11.3*	*0.020*	*50.6*	*1.21*
Ni-column	*17.43*	*0.15*	*2.7*	*7.2*	*2.66*	*32.28*	*161.21*
Phenyl sepharose	*8.5*	*0.21*	*1.8*	*6.1*	*3.38*	*27.35*	*204.84*
Q-Sepharose	*2.3*	*0.69*	*1.6*	*5.8*	*3.625*	*26.00*	*219.69*

Table 1. Bacterial ceramidase was purified from two liters of culture as described in experimental procedures. One enzyme unit was defined as the amount capable of hydrolyzing 1 μmol ceramide/ min at 37˚C using D-erythro-C16 ceramide as a substrate at a concentration of 50 μM in a 50 mM (pH 7.1) Tris- HCl buffer containing 1 mM $CaCl_2$, 0.1% (w/v) Triton X-100 final concentration, with a total volume of 100 μl.

Table 2.

Step	*Volume of fraction (ml)*	*Concentration (mg/ml)*	*Total amount (mg)*	*Activity (units)*	*Specific activity (units/mg protein)*	*Yield (%)*	*Purification factor fold*
Cell lysate	*100*	*7.56*	*756*	*17.32*	*0.0229*	*100*	*1.0*
Protamine sulfate	*95*	*3.7*	*352*	*9.43*	*0.026*	*54.44*	*1.135*
Ni-column	*25*	*0.048*	*1.2*	*6.23*	*5.19*	*35.96*	*226.6*
Phenyl sepharose	*2*	*0.35*	*0.7*	*2.4*	*3.42*	*13.8*	*149.34*

Table 2. Sphingomyelinase D was purified from four liters of culture as described in experimental procedures. One enzyme unit was defined as the amount capable of hydrolyzing 1 μmol sphingomyelin/ min at 37˚C using D-erythro-C16-sphingomyelin as a substrate at a concentration of 50 μM in a 10 mM (pH 7.4) HEPES buffer containing 1 mM $CaCl_2$, 5 mM KCl, 1 mM $MgCl_2$, with a total volume of 100 μl.