

HEMOLYTIC ACTIVITY OF NEW LINEAR SURFACTIN ANALOGS

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New linear analogs of surfactin have been synthesized. Basic physico-chemical parameters of the new derivatives were determined. The result indicates that, in linear product, surface activities are maintained but lowered. The hemolytic activities have been assayed. In the range of concentration tested, no significant hemolysis happens for linear product, which is not the case for cyclic surfactin. Moreover, a protective effect against triton induced hemolysis has been highlighted for linear surfactin. The concentration at which this protective effect happens is correlated directly to the CMC, and inversely to the acyl chain length of the product. In hypotonic medium, analogs having a long acyl chain tend to increase the hemolysis, meanwhile the product with the shortest chain tend to decrease it.

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