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[\[PDF \(555K\)\]](#) [\[References\]](#)**Elimination Technique for Alkali Metal Ion Adducts from an Electrospray Ionization Process Using an On-line Ion Suppressor**[Kazuyoshi NOZAKI](#)<sup>1)</sup>, [Akira TARUI](#)<sup>1)</sup>, [Issey OSAKA](#)<sup>1)</sup>, [Hideya KAWASAKI](#)<sup>1)</sup>  
and [Ryuichi ARAKAWA](#)<sup>1)</sup>*1) Department of Applied Chemistry, Faculty of Chemistry, Materials and Bioengineering, Kansai University***(Received February 10, 2010)****(Accepted April 20, 2010)**

The effects of an on-line ion suppressor device on alkali metal ion adduct formations of the model compound tacrolimus were investigated. The base peak ion in the positive ion ESI-MS spectrum of tacrolimus was a sodium ion adduct,  $[M+Na]^+$ . On the other hand, an ammonium ion adduct,  $[M+NH_4]^+$ , was the base peak ion in the full-scan mass spectrum of tacrolimus with a cation-exchange suppressor resin, and both  $[M+Na]^+$  and  $[M+K]^+$  were eliminated. These results indicate that the combination of an on-line ion suppressor with ESI-MS is a simple and effective technique that eliminates undesirable alkali metal ion adduct formations in the positive-ion mode.

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