

Supporting Information

Development of New Antimicrobial Agents from Cationic PG-surfactants containing oligo-Lys peptide

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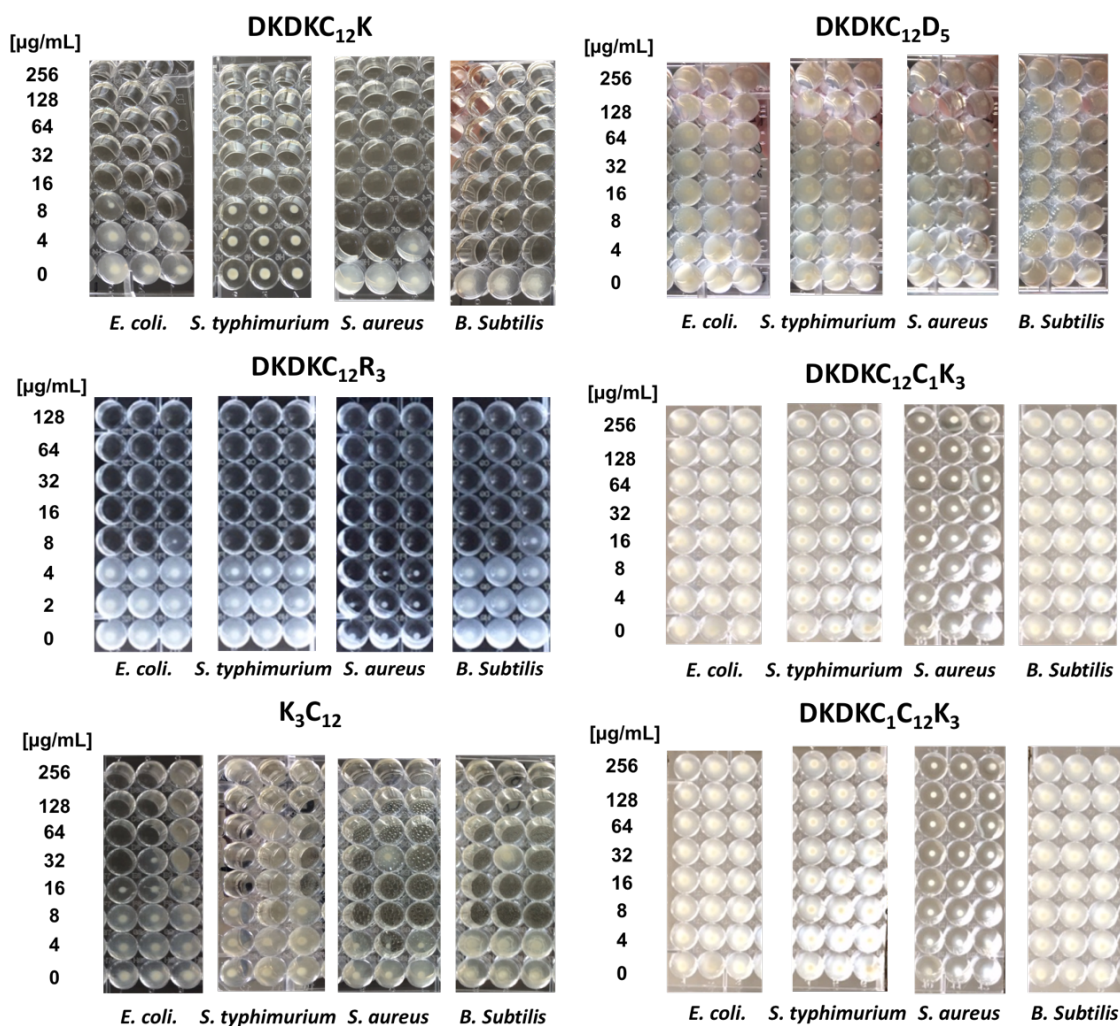


Figure S1. Minimum inhibitory concentration (MIC) assay of the PG-surfactants for gram-positive and -negative bacteria

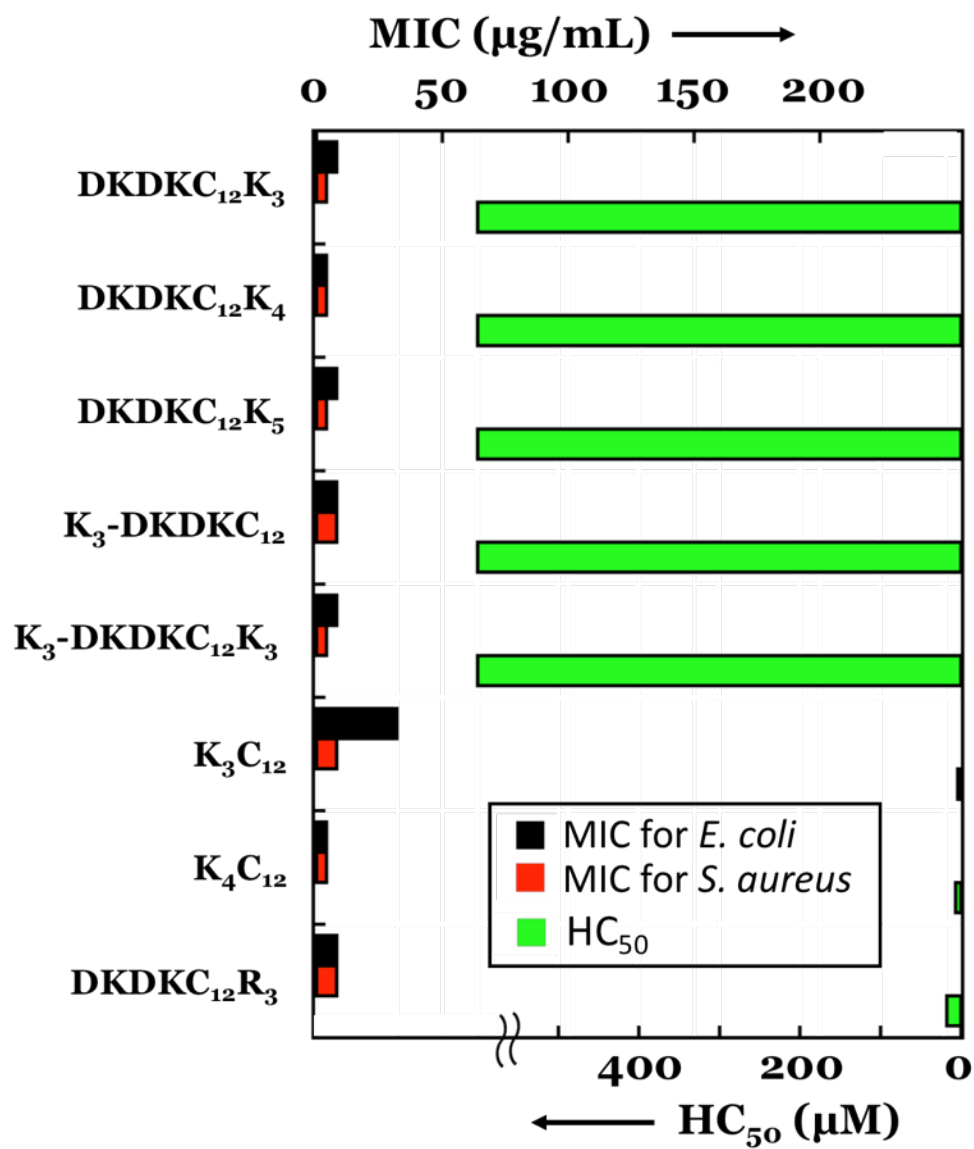


Figure S2. Comparison of antimicrobial activity (MIC) and hemolytic activity (HC₅₀) of the PG-surfactants **DKDKC₁₂K₃**, **DKDKC₁₂K₄**, **DKDKC₁₂K₅**, **K₃-DKDKC₁₂**, **K₃-DKDKC₁₂K₃**, **K₃C₁₂**, **K₄C₁₂**, and **DKDKC₁₂R₃**

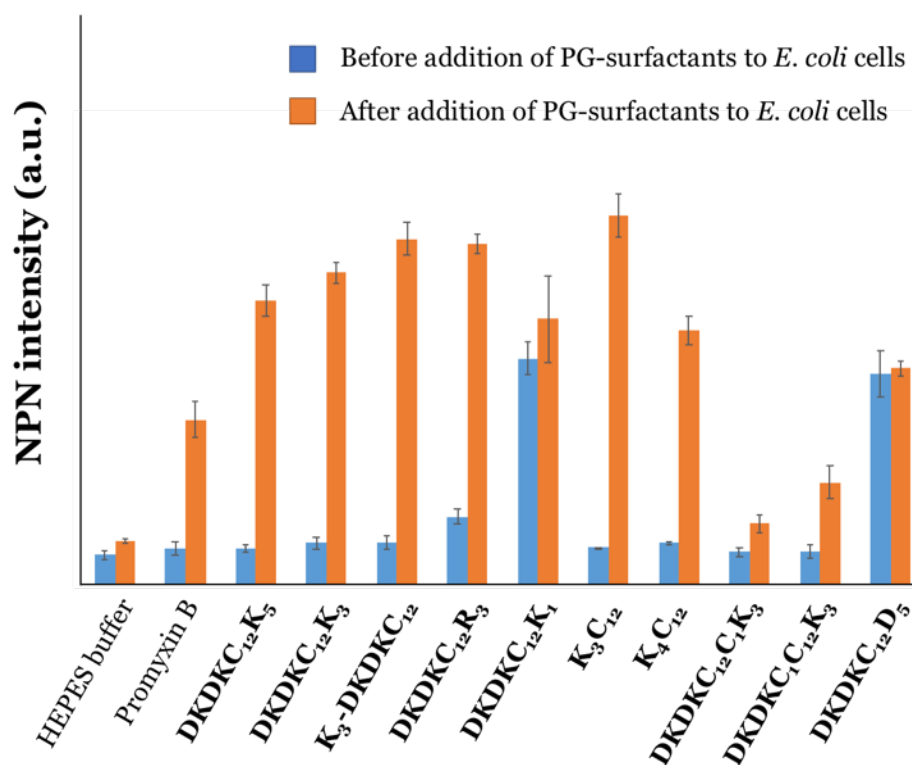
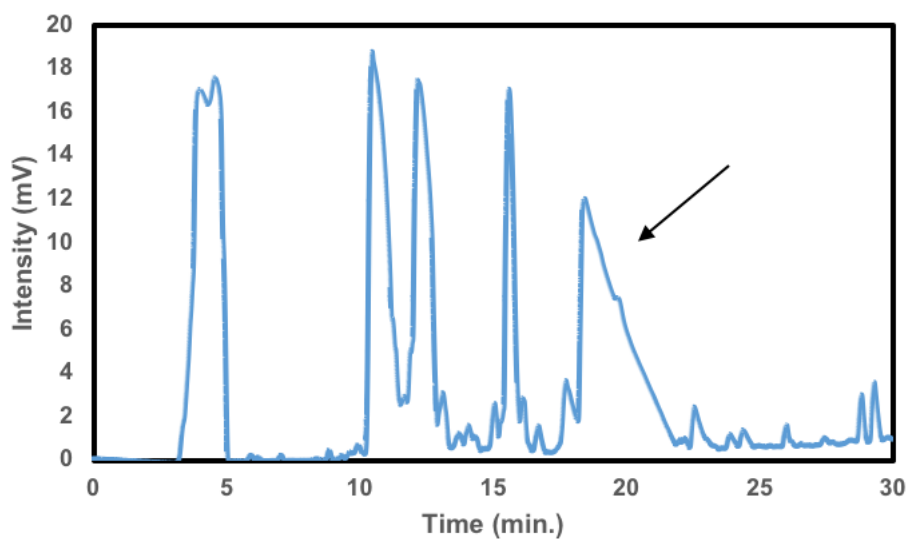


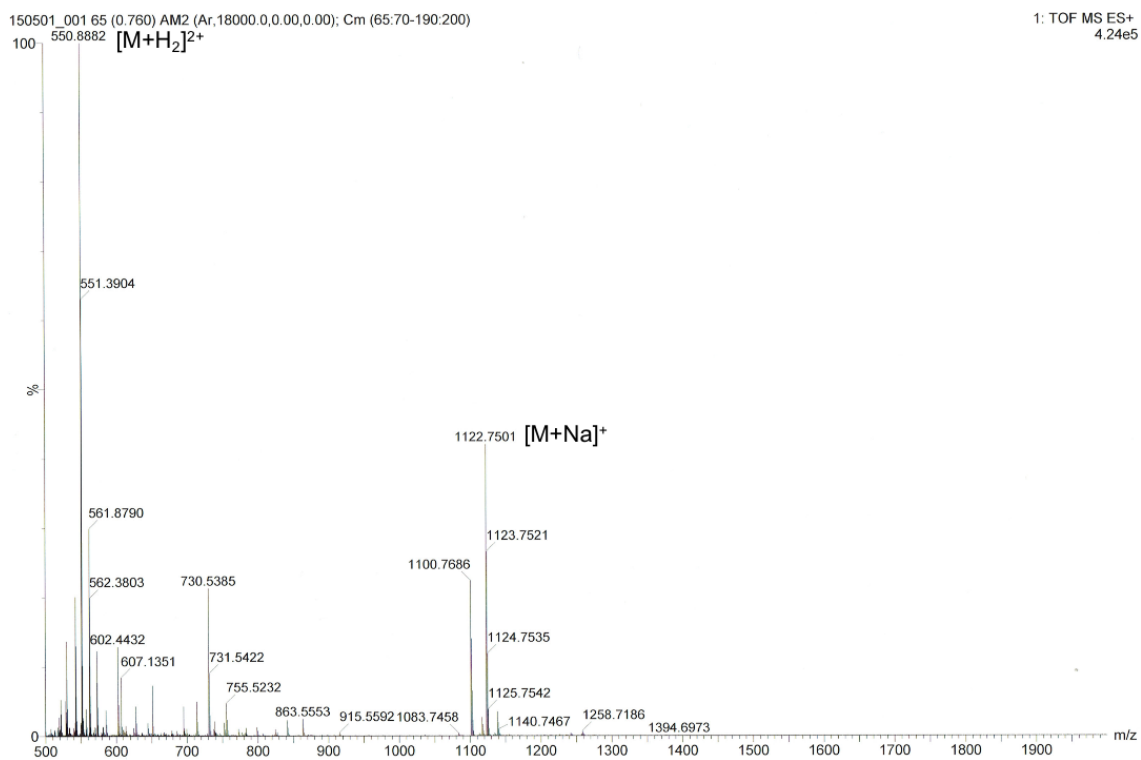
Figure S3. Changes in NPN fluorescence intensity (10 μ M) due to addition of the PG-surfactants (100 μ M) for 10 min.

HPLC profile and ESI-MS data of the series of PG-surfactants in this study

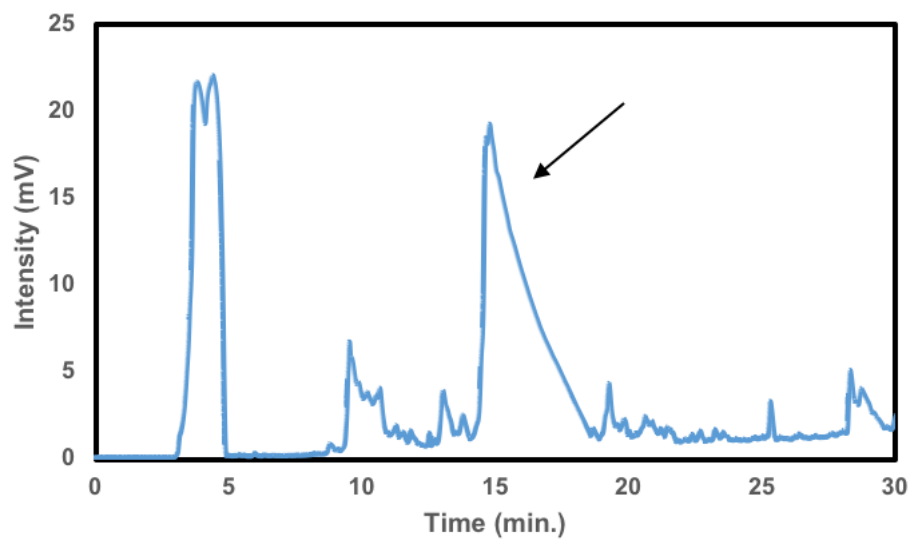
K₃C₁₂



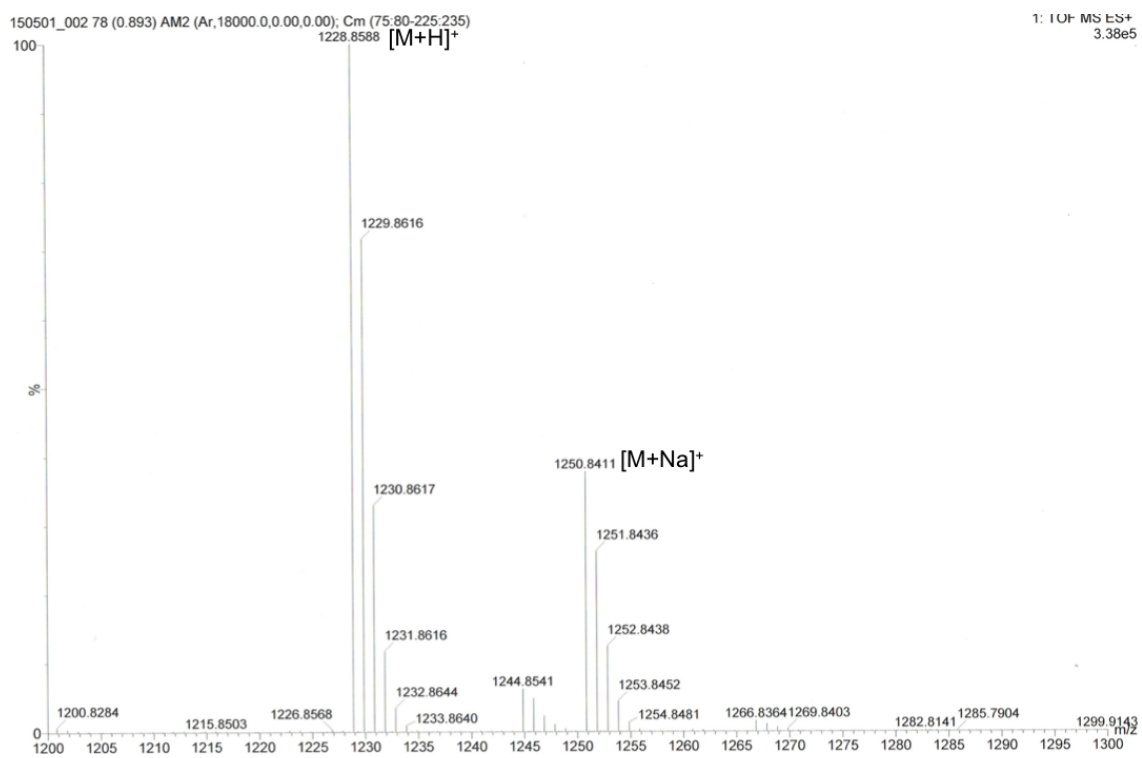
Linear gradient for 30 min. from [MeCN+0.1%TFA]/[H₂O+0.1%TFA] = 30/70 to ~ 90/10.



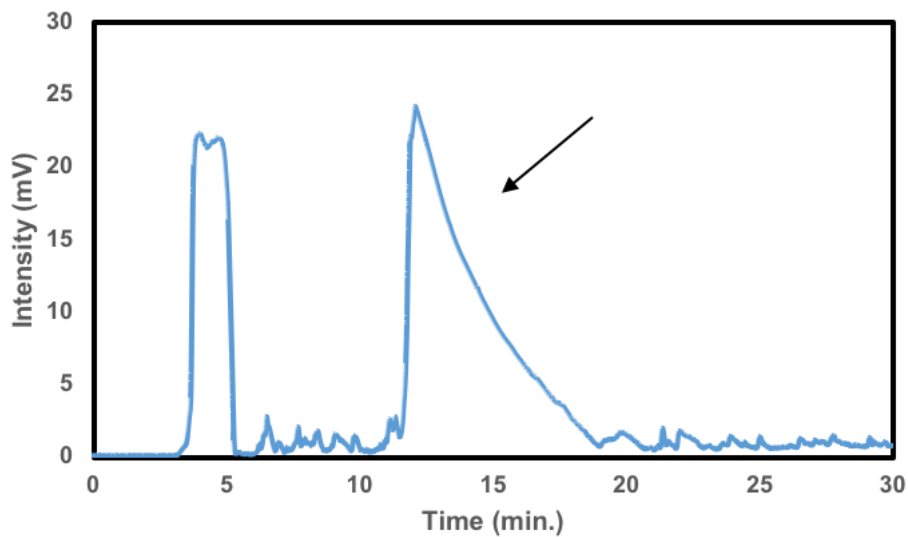
K_4C_{12}



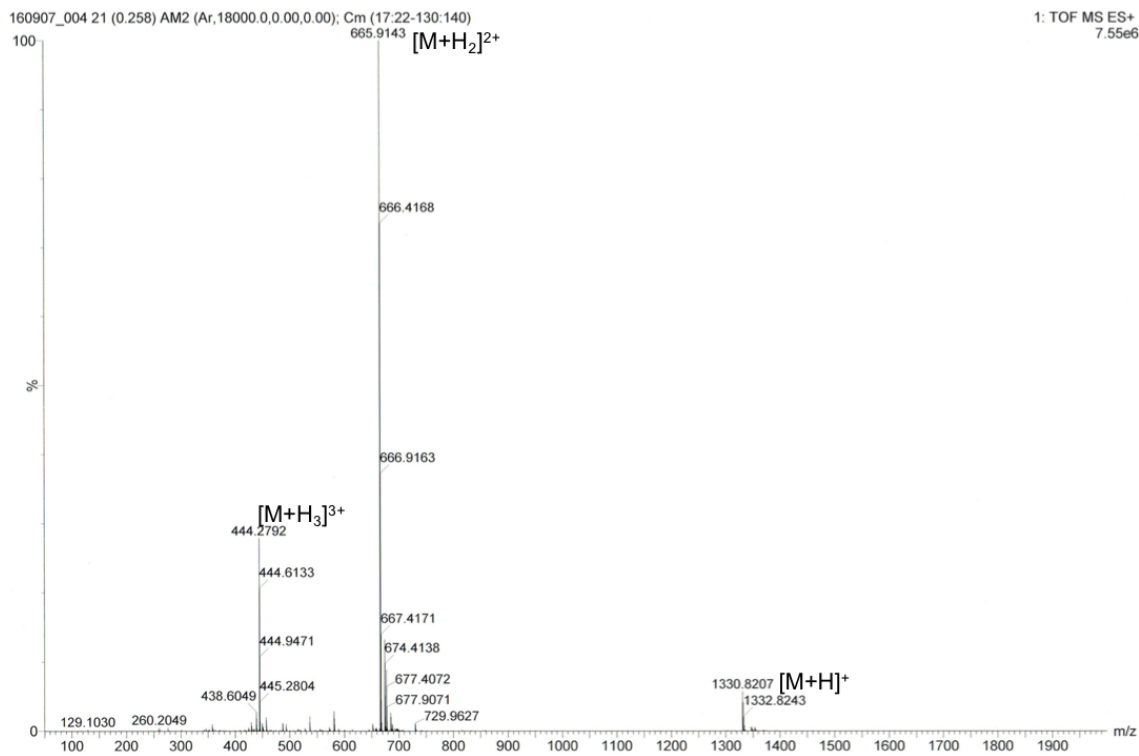
Linear gradient for 30 min. from $[MeCN+0.1\%TFA]/[H_2O+0.1\%TFA] = 30/70$ to $\sim 90/10$.



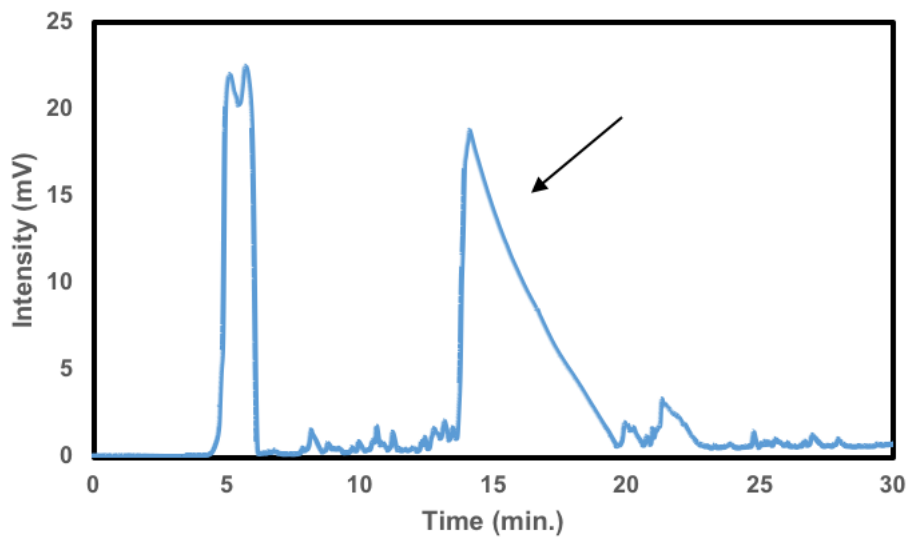
DKDKC₁₂K



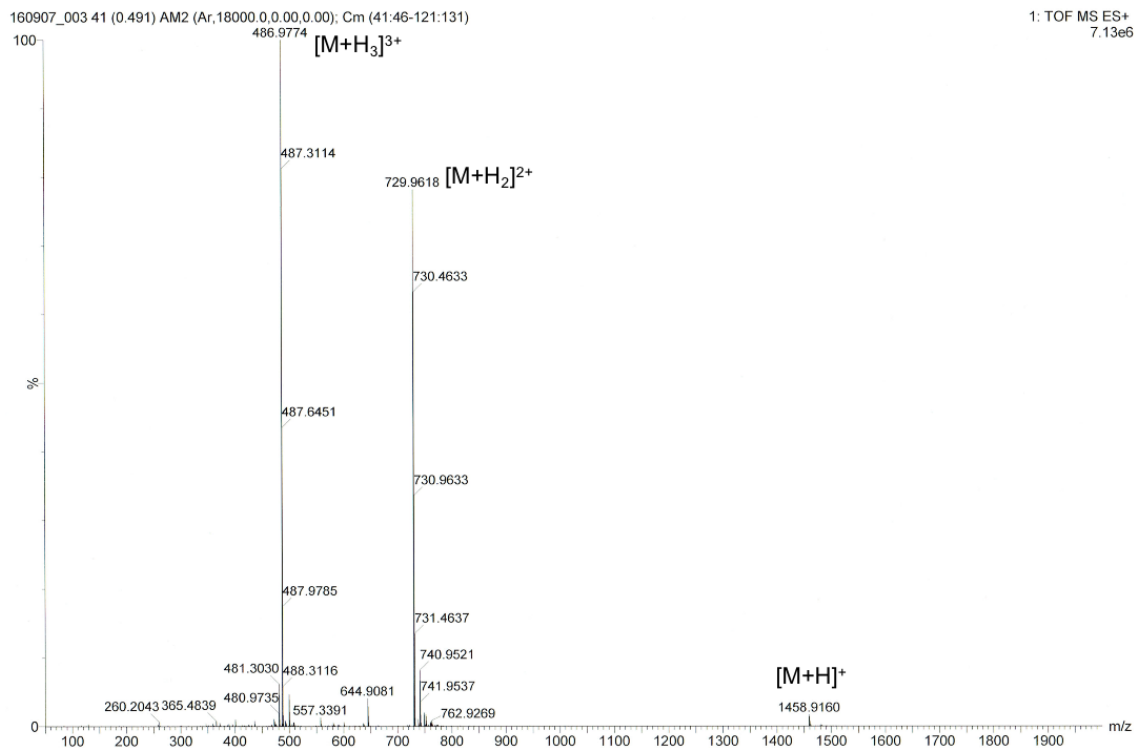
Linear gradient for 30 min. from [MeCN+0.1%TFA]/[H₂O+0.1%TFA] = 30/70 to ~ 90/10.



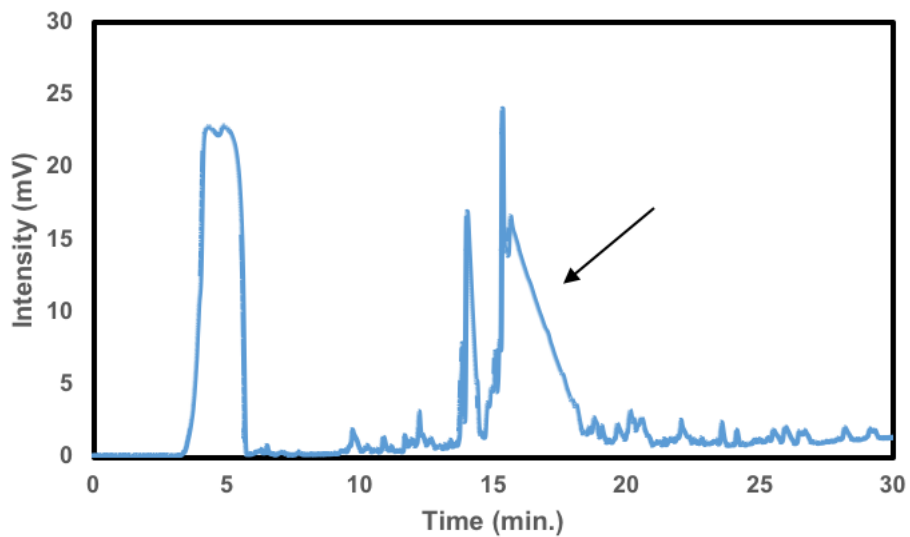
DKDKC₁₂K₂



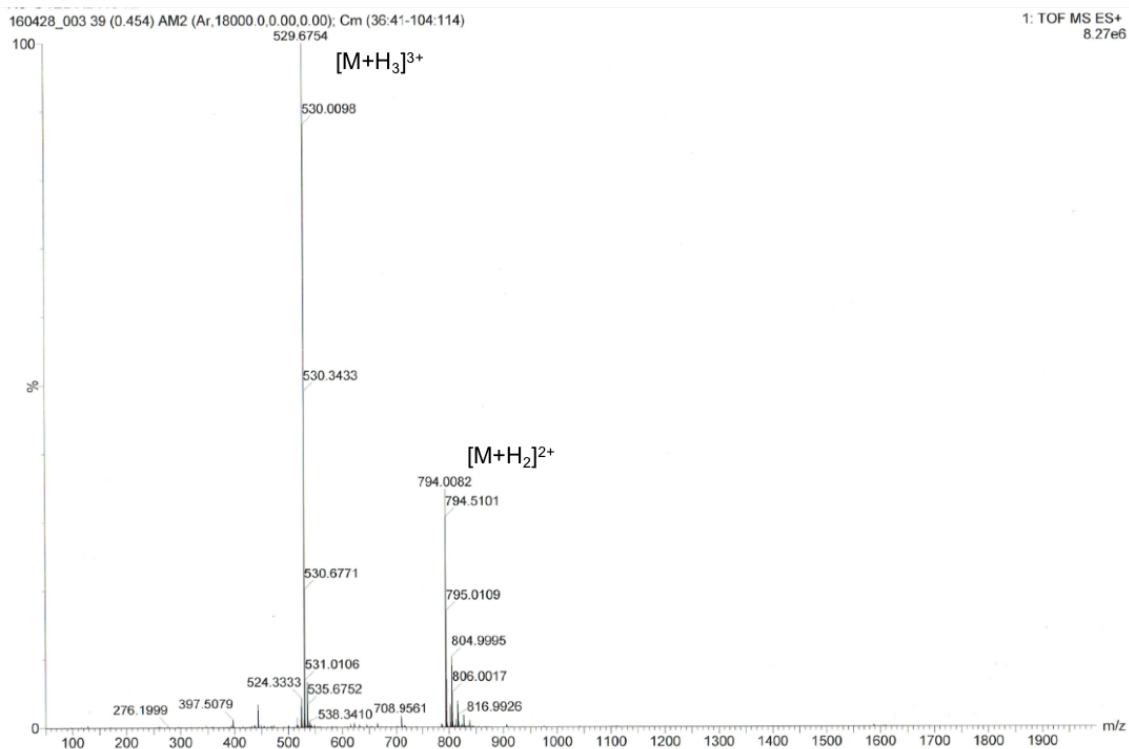
Linear gradient for 30 min. from [MeCN+0.1%TFA]/[H₂O+0.1%TFA] = 40/70 to ~ 80/20.



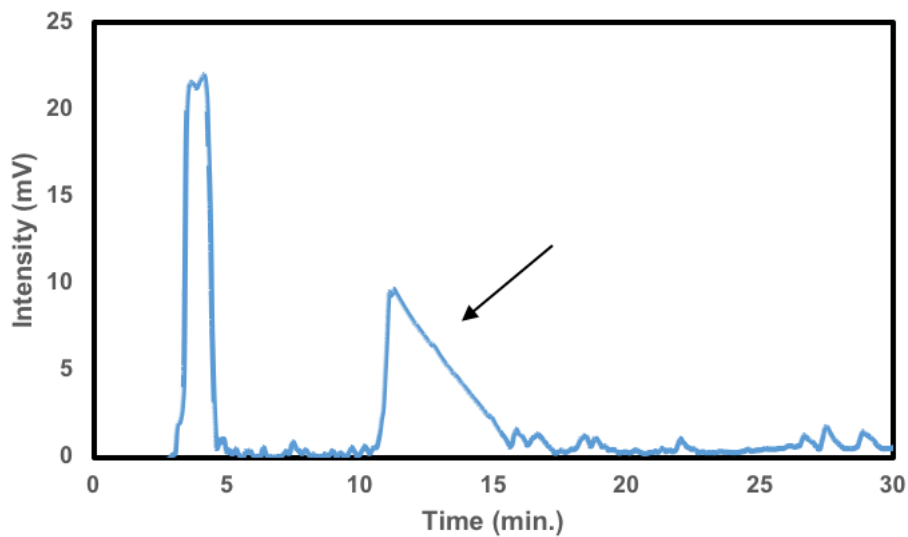
DKDKC₁₂K₃



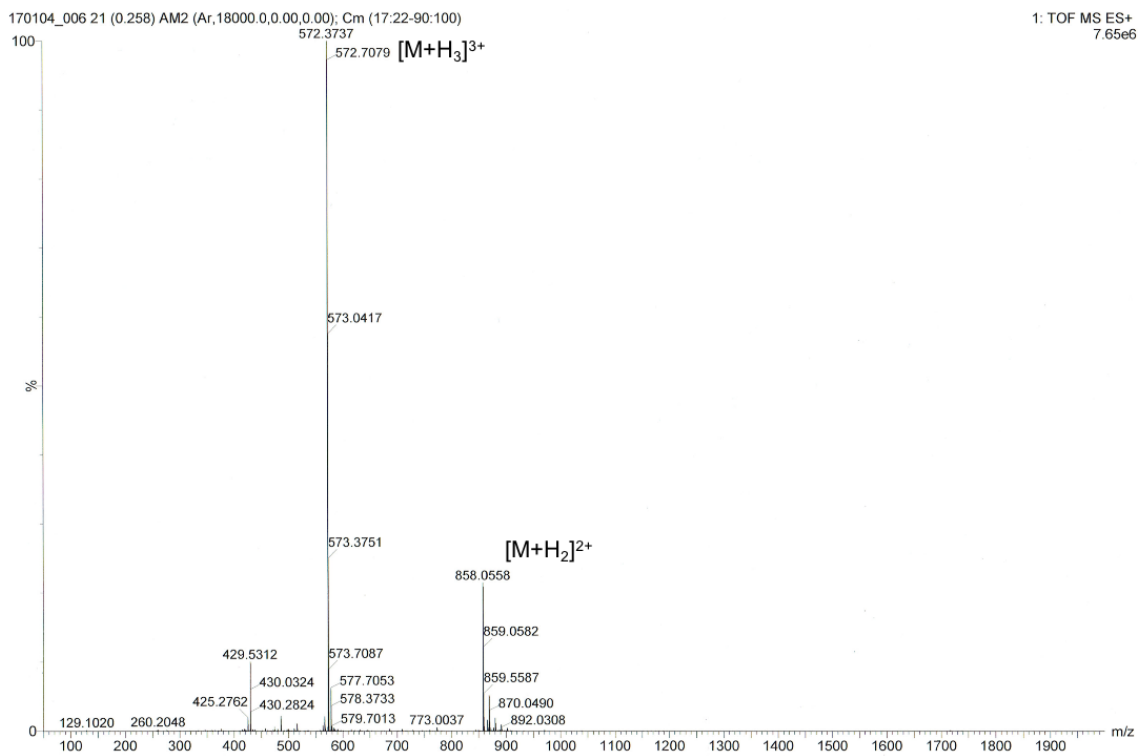
Linear gradient for 30 min. from [MeCN+0.1%TFA]/[H₂O+0.1%TFA] = 30/70 to ~ 70/30.



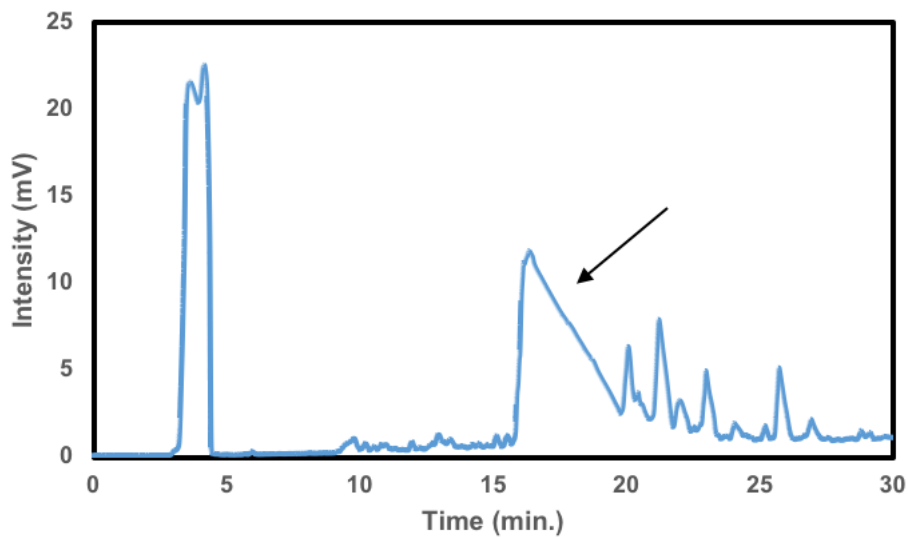
DKDKC₁₂K₄



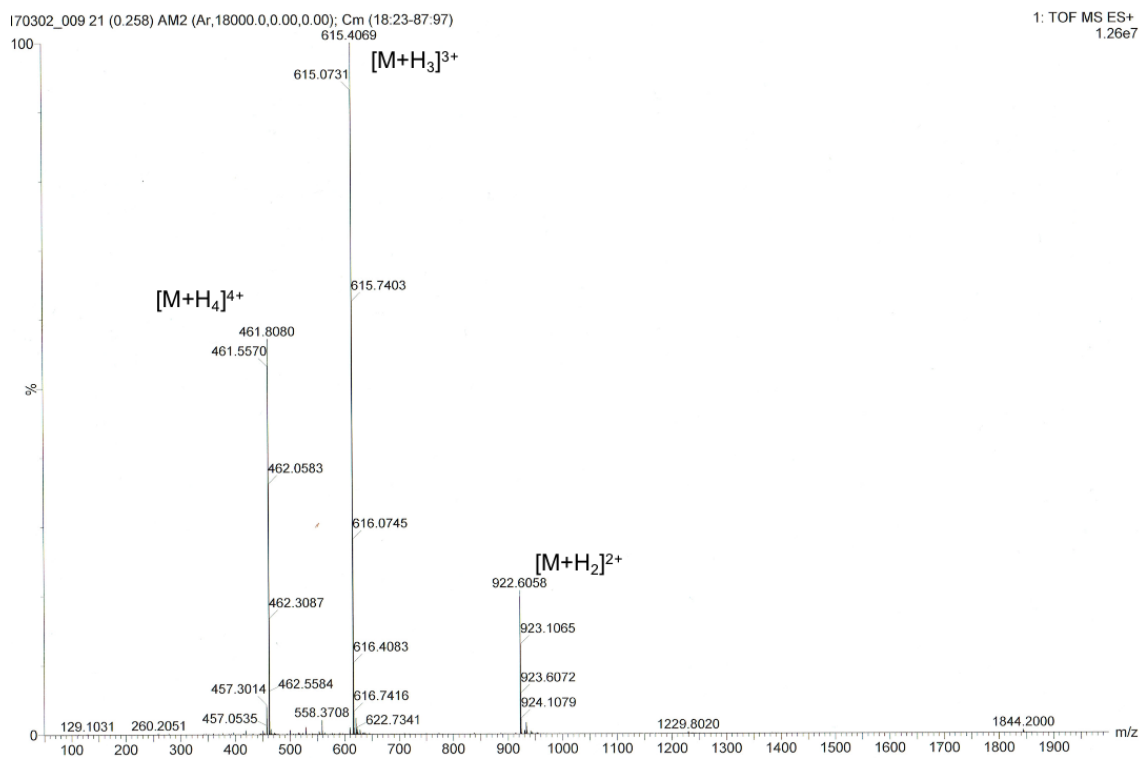
Linear gradient for 30 min. from [MeCN+0.1%TFA]/[H₂O+0.1%TFA] = 35/65 to ~ 75/25.



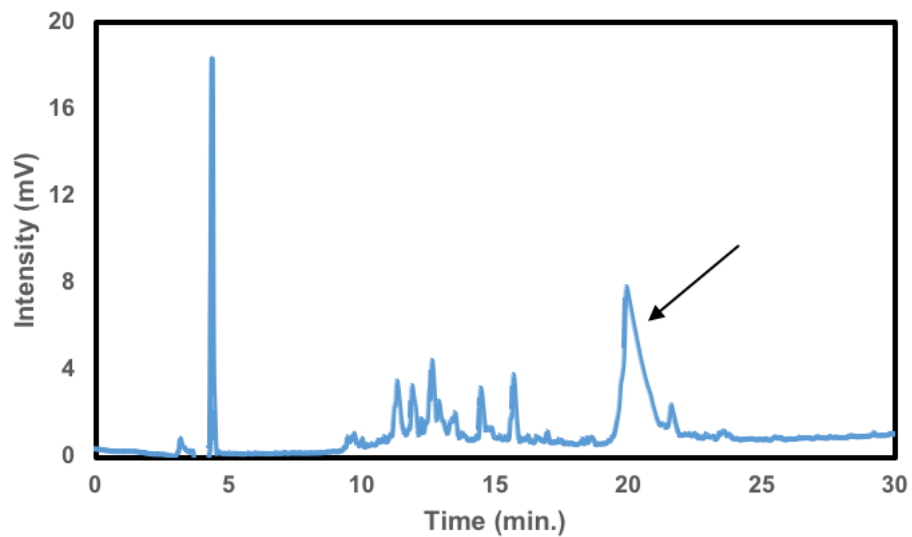
DKDKC₁₂K₅



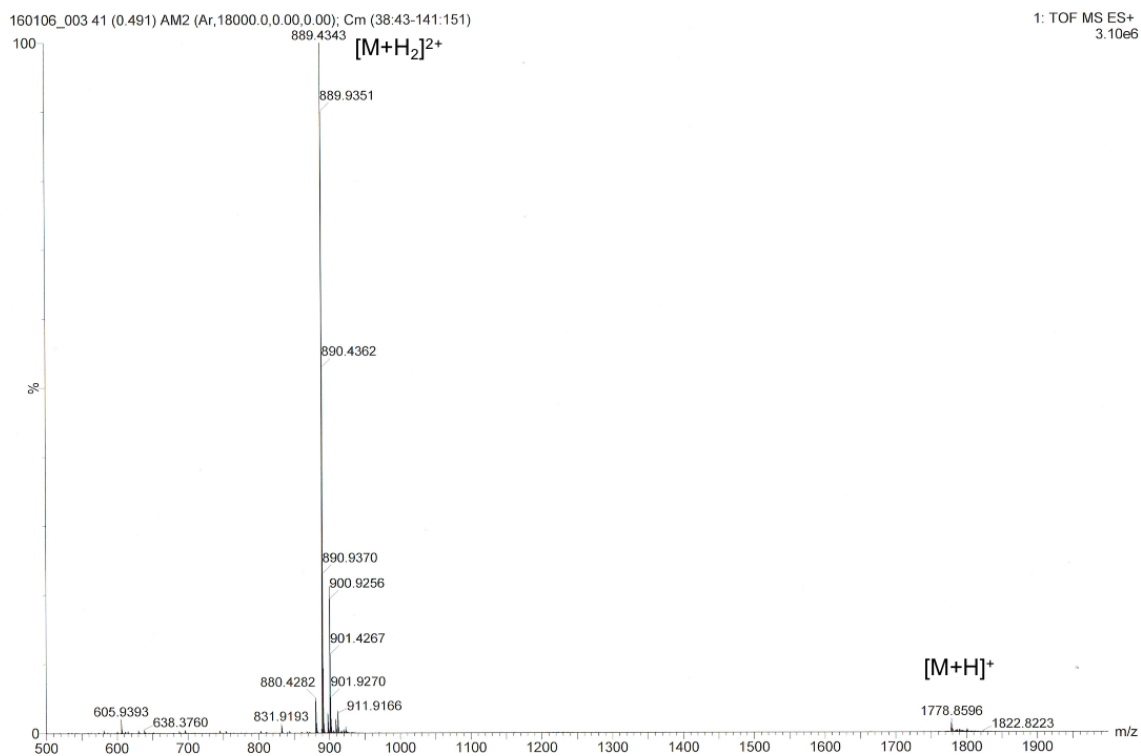
Linear gradient for 30 min. from [MeCN+0.1%TFA]/[H₂O+0.1%TFA] = 30/70 to ~ 70/30.



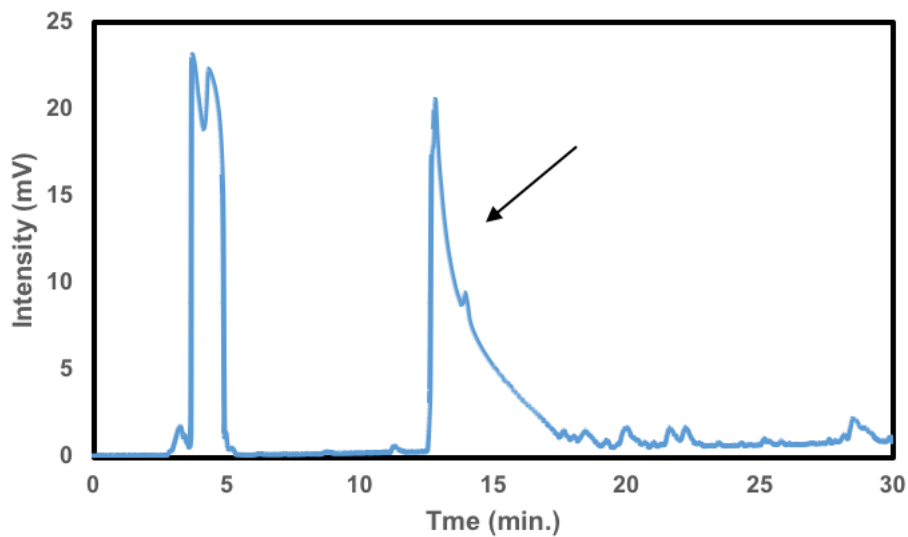
DKDKC₁₂D₅



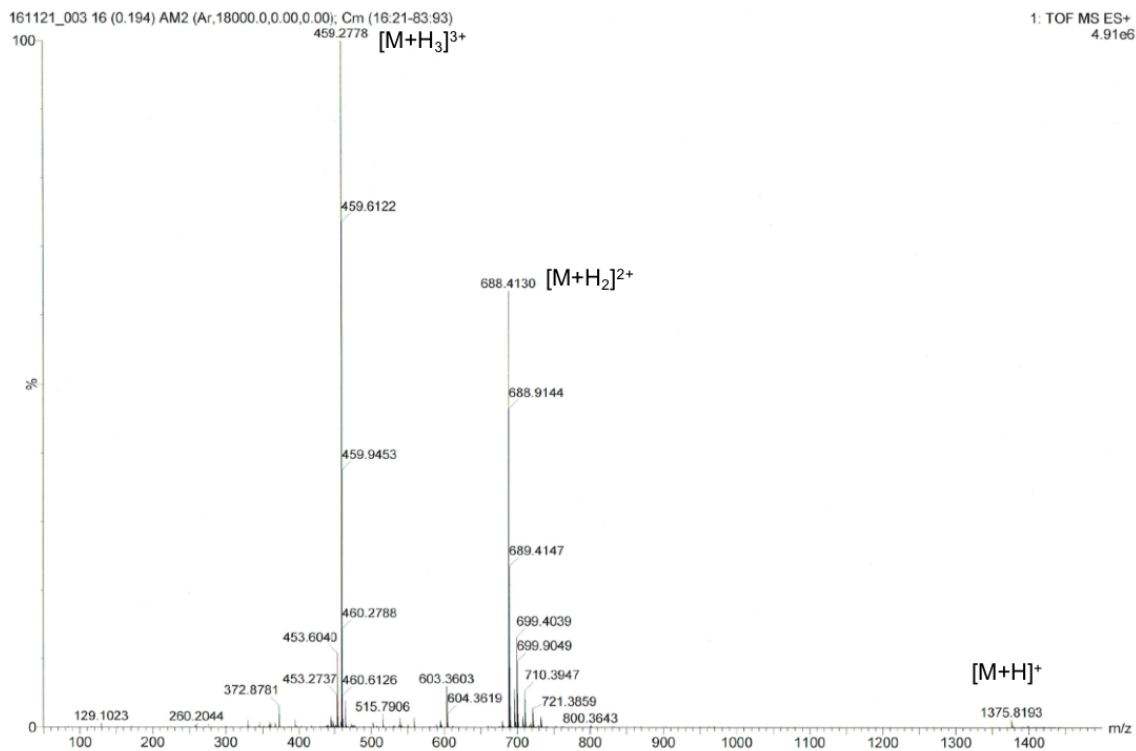
Linear gradient for 30 min. from [MeCN+0.1%TFA]/[H₂O+0.1%TFA] = 30/70 to ~ 90/10.



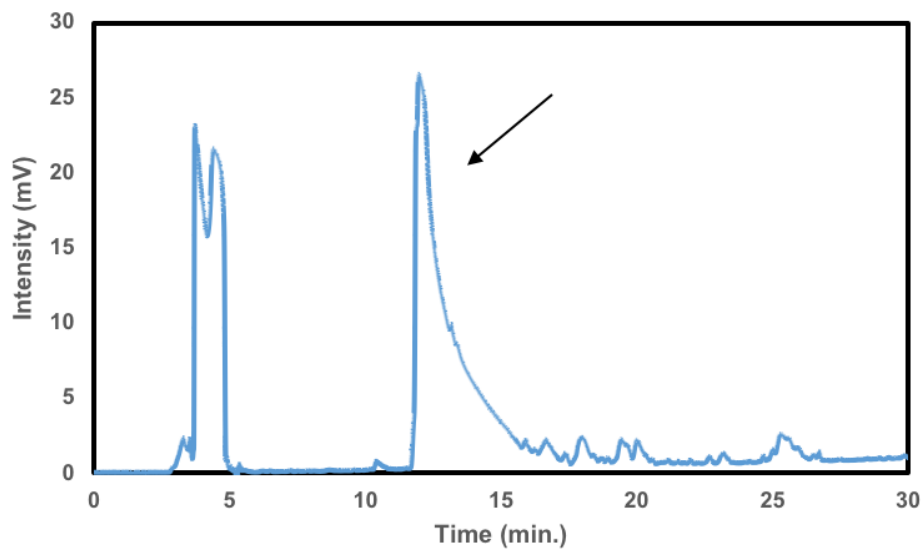
DKDKC₁₂C₁K₃



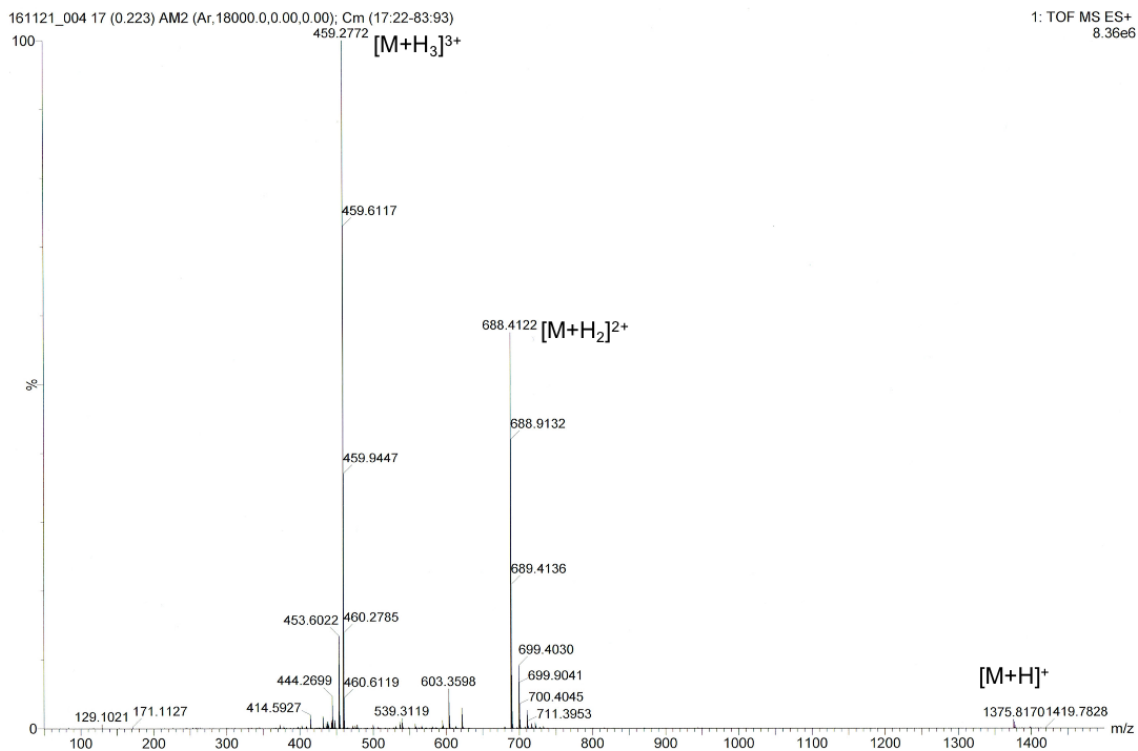
Linear gradient for 30 min. from [MeCN+0.1%TFA]/[H₂O+0.1%TFA] = 30/70 to ~ 70/30.



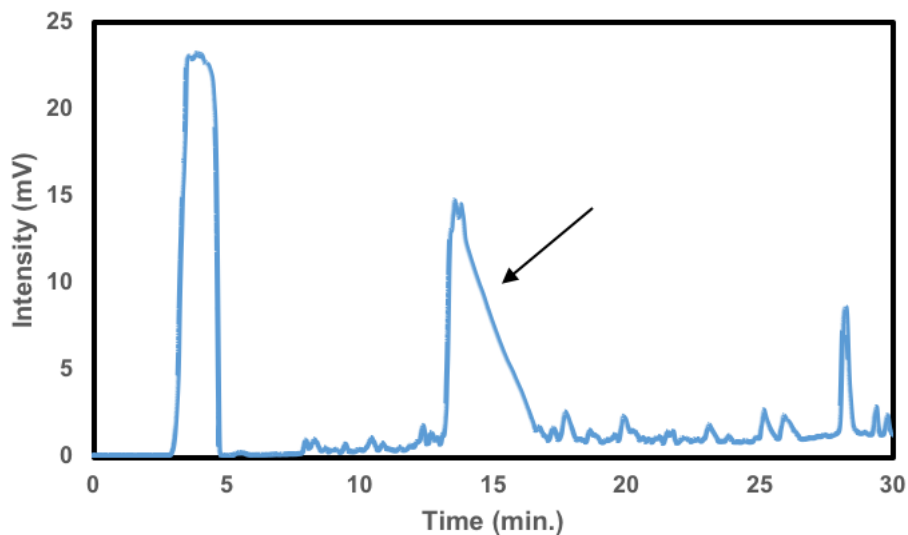
DKDKC₁C₁₂K₃



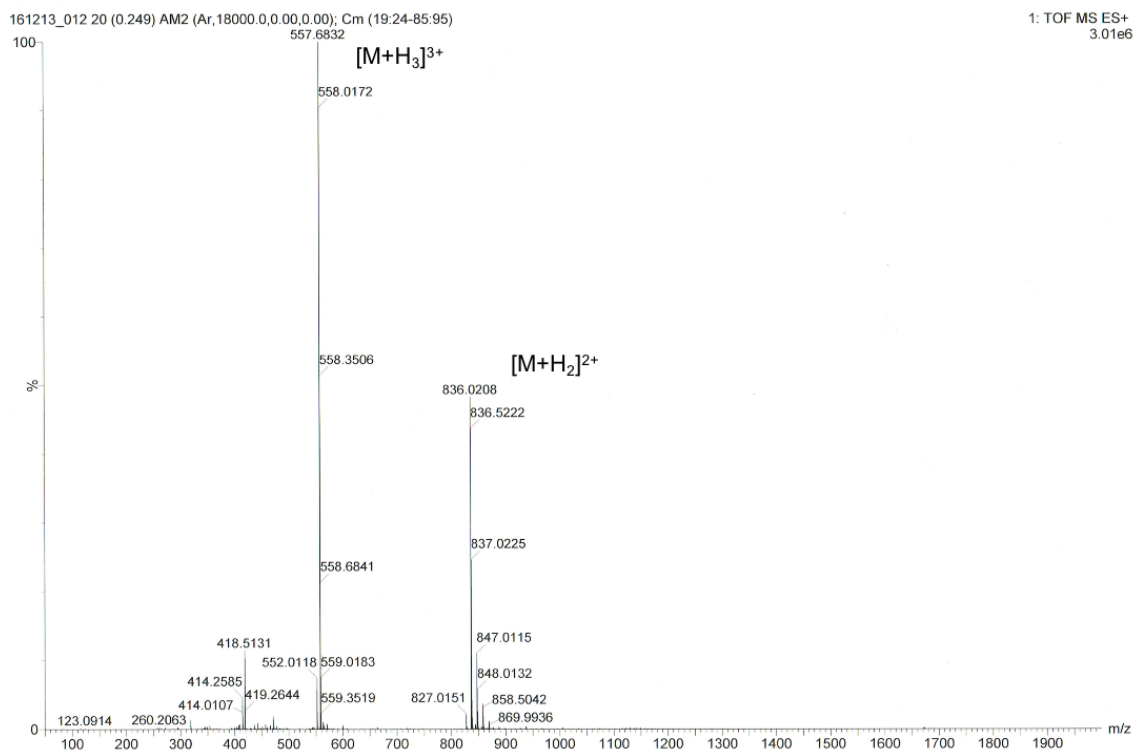
Linear gradient for 30 min. from [MeCN+0.1%TFA]/[H₂O+0.1%TFA] = 30/70 to ~ 70/30.



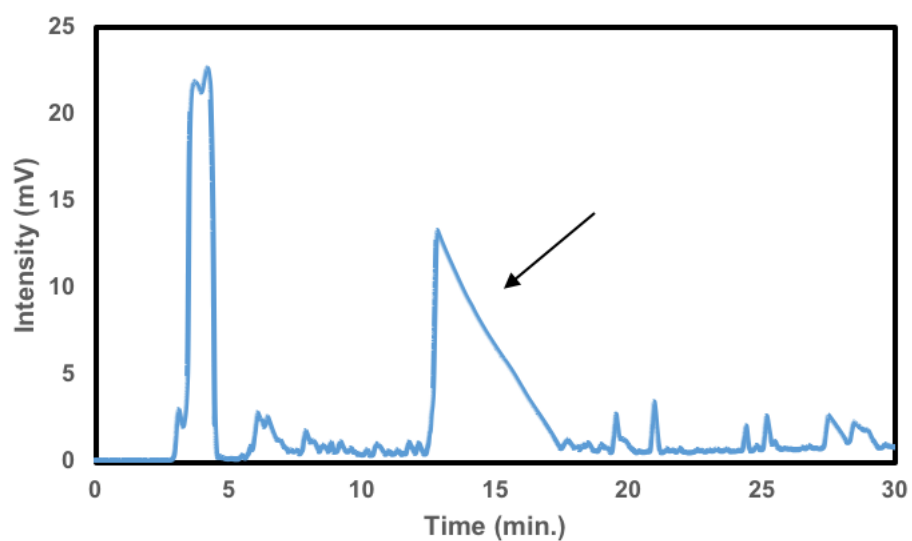
DKDKC₁₂R₃



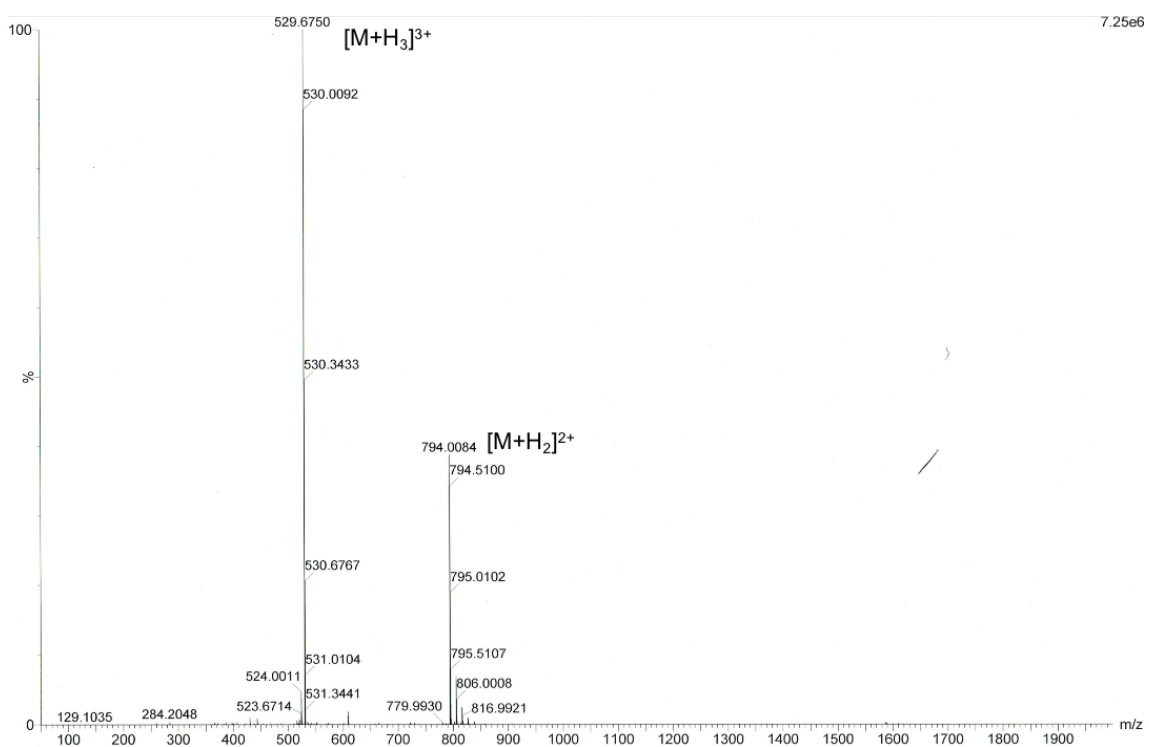
Linear gradient for 30 min. from [MeCN+0.1%TFA]/[H₂O+0.1%TFA] = 30/70 to ~ 90/10.



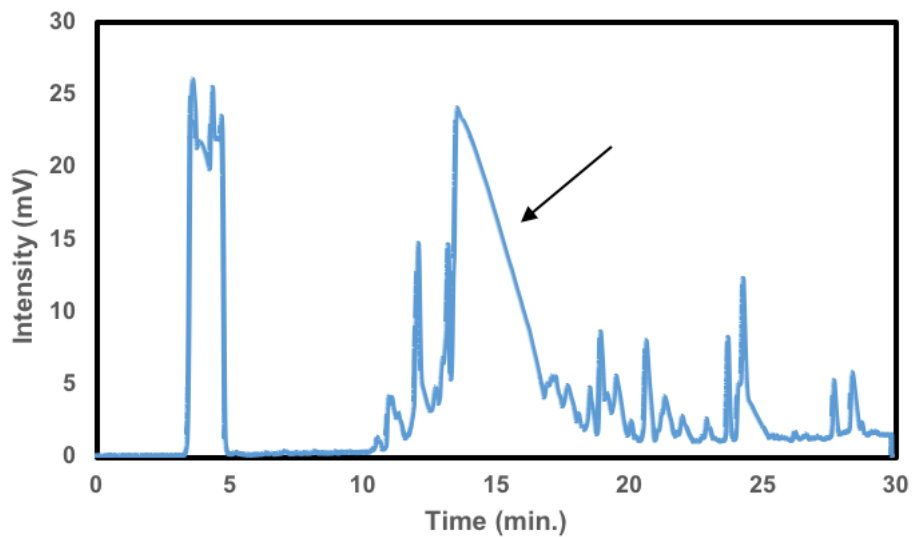
K₃-DKDKC₁₂



Linear gradient for 30 min. from [MeCN+0.1%TFA]/[H₂O+0.1%TFA] = 30/70 to ~ 80/20.



$\text{K}_3\text{-DKDKC}_{12}\text{K}_3$



Linear gradient for 30 min. from $[\text{MeCN}+0.1\%\text{TFA}]/[\text{H}_2\text{O}+0.1\%\text{TFA}] = 30/70$ to $\sim 70/30$.

