thereby increasing the amount of the polypeptide of interest bound to the ion-exchange matrix relative to the amount of one or more impurities bound to the ion-exchange matrix before the ion-exchange matrix is eluted and thereby leading to an increased ratio of the polypeptide of interest to one or more impurities in the eluate as compared to the same process wherein the chemical compound is added at a concentration of below 7mM,

wherein, in each of (a) to (c), the ion exchange matrix is a cation exchange matrix, and the chemical compound is selected from the group consisting of tetraethylene pentamine (TEPA), dipicolylamine (DPA), poly-lysine, poly-arginine and poly-histidine.

2.) Process according to claim 1 wherein the polypeptide of interest is a monoclonal antibody.

3.) Process according to claim 1 ~~or claim 2~~ wherein the polypeptide of interest is a vitamin K-dependent polypeptide.

4.) Process according to claim 3 wherein the polypeptide of interest is a FIX polypeptide or FVII polypeptide.

5.) Process according to claim 4 wherein the polypeptide of interest is wild type FIX or wild type FVII.

6.) Process according to claim 4 or claim 5 wherein the polypeptide of interest is FIX and the impurities comprise FIXalpha.

7.) Process according to claims 1 to 6 wherein the impurities comprise host cell proteins and/or host cell nucleic acids and/or product-related contaminants and/or viruses and/or prions and/or endotoxins and/or process-related contaminants.

8.) Process according to claim 7 wherein the impurities comprise host cell proteins.

9.) Process according to claim 8 wherein the reduction in host cell proteins is at least 2 fold higher when using the chemical compound as opposed to not using the chemical compound under otherwise identical process parameters.

10.) Process according to claim 8 wherein the host cell proteins is Chinese Hamster Ovary Cell Proteins (CHOP).

11.) Process according to claim 10 wherein the improvement of CHOP Reduction Factor can be 11% or 16% or 38 % or 52% or 60% or 89% or 150% or 165% or 223% or 265% or 563% or 1200% or 1325% or 1663%.