

Turowski and Adelmann–Grill (79), extensively studied the influence of peptide molecular weight and hair/skin substantivity and found results that openly contrast with those reported by others (9,10,93). The main findings were the following: (1) dependence of the substantivity on the peptide concentration in the medium was almost linear and saturation was not attained at a concentration below 5%; (2) the amount of protein sorbed to the hair varied significantly with the washing conditions (amount of water used and rinse duration), especially when applied in shampoos; (3) the characteristics of the shampoo formulations strongly influenced both substantivity and permanence of the peptides on the hair after washing; (4) absorption of peptides on damaged hair was higher than on untreated hair when at low concentration in the medium and for short incubation time