

Proteome analysis of dentin in human teeth adult subjects was conducted to optimize the two dimensional gel electrophoresis (2-DE) analysis of proteins from the dental tissue.

The third molar teeth were cleaned, crushed and extracted in guanidine and EDTA buffer.

Extracted proteins were separated by 2-DE, digested with trypsin to peptides and subsequently analyzed using nLC MS/MS.

Totally, 7 unique proteins were identified in the samples.

The use of IPG strips with different range of the pH gradient and the subsequent comparison of 2 DE gels unfortunately did not bring important new information, because common keratin, collagen and serum albumin proteins were identified.