Copper effects on human health represent a relevant issue in modern nutrition. One of the
difficulties in assessing the early, acute effects of copper ingested via drinking water is that the taste
of copper may influence the response and the capacity to taste copper in different waters is
unknown. The purpose of the study was to determine the taste threshold of copper in different types
of water, using soluble and insoluble salts (copper sulfate and copper chloride). Copper-containing
solutions (range 1.0-8.0 mg/l Cu) were prepared in tap water, distilled deionized water and
uncarbonated mineral water. Sixty-one healthy volunteers (17-50 years of age), with no previous
training for sensory evaluation, participated in the study. A modified triangle test was used to define
the taste threshold value. The threshold was defined as the lowest copper concentration detected by
50% of the subjects assessed. To evaluate the olfactory input in the threshold value obtained, 15 of
61 subjects under