【ABSTRACT】Clinical isolates which belong to the “Streptococcus milleri” group were identified by the referral fluorogenic phenotypic tests described by Whiley et al. (2) and a rapid, commercially available test kits; Fluo–Card Milleri(KEY Scientific Products, Round Rock, Tex., U.S.A.) to the species level. Of 218 clinical isolates included, 196 (89.9%) were correctly identified by the Fluo–Card Milleri when compared with the reference identifications. Ten isolates (4.6%) of S. constellatus resulted in the “unidentified” due to the negative interpretations for all the three enzymatic reactions. A total of twelve isolates (5.5%); five of S. anginosus, five of S. constellatus and two of S. intermedius, were misidentified. The levels of agreement were 95.7% for S. anginosus, 91.3% for S. intermedius, and 92.6% for S. constellatus when the unidentified results were excluded.

Key words: Fluo–Card Milleri test kit, Streptococcus milleri group, fluorogenic substrate, rapid identification