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Fragment gene preparation with Allele-Specific Polymerase Chain Reaction (AS-PCR) method for standard marker of HER2^{I655V}

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HER2^{I655V} detection method for breast cancer frozen tissue origin have been successfully developed. However, these methods have still used sampling of breast cancer that is impassive (making the patient's pain due to tissue sampling procedure through biopsy). Therefore, the present study developed a method of detection of HER2^{I655V} using buccal cells as a source of genetic material that is safe and does not create additional pain to the patient, besides taking samples of DNA from buccal cells more applicable for genetic screening program HER2^{I655V} involving many samples. The purpose of this study was to isolate DNA from buccal cells and perform HER2^{I655V} SNP detection using the *AS-PCR* to determine the usefulness of the buccal cells as an alternative to DNA samples of non-impassive. The result of this study is successfully performed with the size of AA genotype 142 bp and genotype GG 168 bp. Confirmation test was conducted with 5 samples from buccal cells known genotype AA. The preparation success was indicated by no contamination in the test sample *AS-PCR* with NTC added in the test.

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