**Question of Taste: PCR Results**

\*insert your organisation’s logo here\*

The picture above shows the expected results for the three different taster genotypes.

* If you are a homozygous non-taster (tt) none of your DNA will have been cut by the restriction enzyme. This produces only 1 band on the gel at 221bp.
* If you are a homozygous taster (TT) all of your DNA will be cut by the restriction enzyme. This produces 2 bands on the gel at 177bp and 44bp.
* If you are a heterozygous taster (Tt) only half of your DNA will be cut by the enzyme. This produces 3 bands on the gel at 221bp, 177bp and 44bp.

You may not be able to see the bands at 44bp or the primer dimer, they are quite faint, but you only need to see the larger, brighter bands on the gel to work out your genotype.

Does the genotype shown by the gel match your PTC tasting phenotype (taster or non-taster)? If not, why not?

