

National Health and Nutrition Examination Survey

Quality Control Protocol for Candidate Gene Studies (Updated 6/18/2015)

1. Investigators are provided with three to five 96-well quality control plates which represent 5% of the complete set. These duplicate specimens are blinded to the investigators. For more detail on the quality control plates, see the Federal Register.
2. If more than 5% of the duplicate specimens on the quality control plates are discordant with their pair in the complete set, the variant fails quality control (i.e., >95% duplicate concordance required).
3. Deviations from Hardy Weinberg (HW) proportions are assessed separately for each of the three main race/ethnicity groups (defined as non-Hispanic white, non-Hispanic black, or Mexican-American) using chi-square goodness-of-fit tests. If two of the three race/ethnicity groups deviate from HW proportions at $p < 0.001$, the variant fails quality control.