

Method for 0.5% and 1.0% LL601 Detection at 95% Confidence Level Using QuickStix™ Kit for LibertyLink® Rice

AS-013-RB

The GIPSA-validated detection threshold of the QuickStix Kit for Bulk Rice is 1.33%, or one LL601 seed in 75 non-transgenic seeds. At a 95% confidence level, to determine if a sample contains less than 0.5% LL601 rice, 8 different 75-seed subsamples must each test negative. For a 1.0% detection level, 4 tests of 75 seeds all need to be negative. Use the following protocol for each 75-seed subsample.



Weigh 75 rice grains and add to blender jar; assemble with blade and place on blender base



Grind for 15-20 seconds on High; make sure all seeds are finely ground



Transfer ground rice to a weigh boat or weigh paper



Carefully pour ground rice into extraction vial



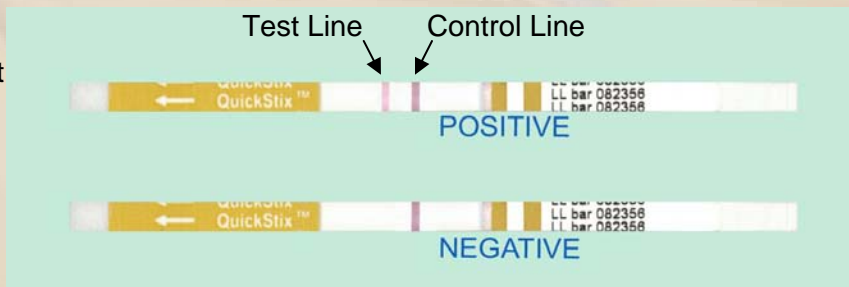
Add 1.5 times sample weight of buffer (in mL) and shake for 15 seconds



Tap solids down, place test strip in liquid portion (do not push strip into settled solids)

Wait **10 minutes**, remove strip and read result. Any clearly discernable pink Test Line is a positive result.

NOTE: Test Line intensity is dependent on GM concentration and may appear lighter than the photograph.



Each 75-seed subsample must be negative
to ensure bulk sample meets detection/confidence levels