Making the World's Food Safer®

ROMER
Romer Labs®

Application note:

AgraQuant® Plus Almond (COKAL0748F)
AgraQuant® Plus Casein (COKAL1248F)
AgraQuant® Plus Cashew (COKAL3148F)
AgraQuant® Plus Hazelnut (COKAL0348F)
AgraQuant® Plus Macadamia nut (COKAL1648F)
AgraQuant® Plus Mustard (COKAL2148F)
AgraQuant® Plus Peanut (COKAL0148F)
AgraQuant® Plus Pistachio (COKAL2748F)
AgraQuant® Plus Sesame (COKAL1948F)

Qualitative analysis protocol for a quick screening of maximum 6 samples with the AgraQuant® Plus kits

The AgraQuant® Plus kits can also be used as a quick qualitative screening tool. Therefore extraction is carried out as usual (according the package insert) and coupled to the modified detection method described in this application note.

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Modified detection method for qualitative analysis

To guarantee comparable incubation times, use no more than eight wells for each test assay.

1. Insert one colourless strip (8 wells) into the frame or break off the number of wells needed for your analysis and put down to a horizontal even surface.

2. Add **100 µL each of 0ppm, second standard (1ppm)** and **sample extract(s)** (room temperature) into one of the colourless wells. Leave to incubate at 20-25 °C for **10 min**.

Note: It is up to you where you want to set your cut-off. Instead of the second standard, you can also add the third, the fourth or the highest standard of the test kit. This standard will serve as your cut-off level when interpreting the results.

3. Empty the wells and remove any residual liquids by knocking them out well over laboratory-grade absorbent tissue.
   Washing procedure: Fill up the wells with wash buffer, then empty the wells. Repeat this procedure four times (wash 5 times all together). Finally, thoroughly knock out residual quantities onto laboratory-grade absorbent tissue.

4. Pipette **100 µL conjugate solution (green cap)** into the wells and leave to incubate at 20-25 °C for **10 min**. Then wash 5 times as described in Step 3.

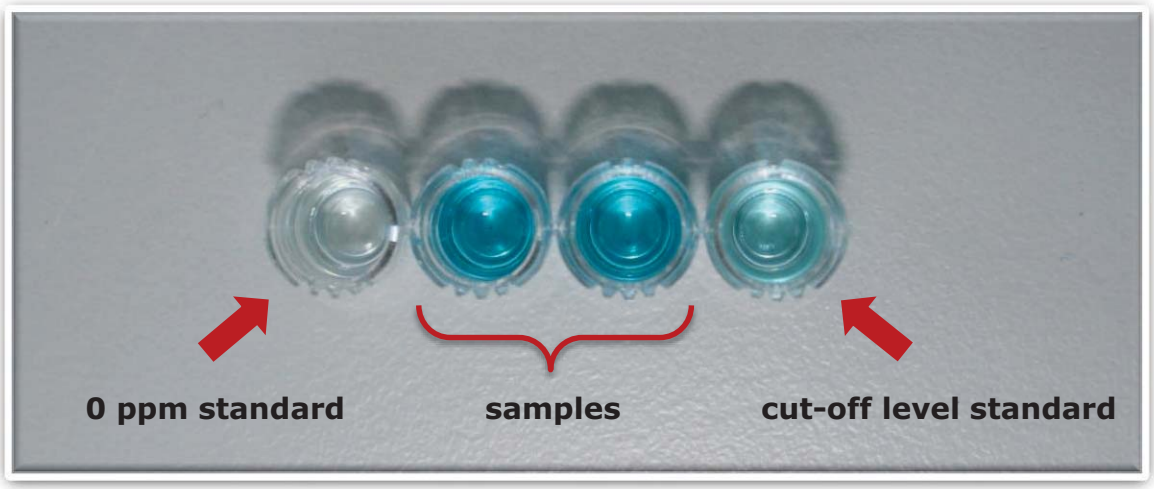
5. Pipette **100 µL substrate solution (blue cap)** into the wells and leave to incubate at 20-25 °C in the dark for **10 min**.

6. Since no stop solution is added to the wells in the qualitative assay, evaluate your results immediately as described in the next section.

Interpretation of results

Compare the colour of your sample to the 0ppm and your cut-off level standard

If your sample is darker compared to your cut-off level standard then your sample contains more mg/kg allergen as your respective cut-off and is therefore **positive**.



Is the colour of your sample the same as the 0ppm standard or darker but still fainter than your cut-off level standard, then your sample contains less mg/kg allergen as your respective cut-off and is therefore **negative**.