

Fapas® – Food Chemistry Proficiency Test 09167
29 February 2024
Maize Flour Test Material

Fera Science Ltd (Fera)
York Biotech Campus
Sand Hutton
York, UK
YO41 1LZ

Tel: +44 (0)1904 462100
info@fapas.com
fapas.com

Test Material(s) dispatched:

Maize Flour test material(s), as appropriate to your order.

Instructions:

- 1) Treat the test material as if it was a sample for routine analysis, i.e. you may use any method of analysis you wish but PLEASE NOTE:
 - You are advised to keep the material frozen until analysis.
 - This test material may contain any number of pesticides (residues) from those listed in Table 1, below.
 - This proficiency test contains **glyphosate** and **AMPA** in addition to the residues listed in Table 1.
 - 2) Determine the level of **glyphosate** and **AMPA** present in the test material, **in µg/kg, in the material in the form it is received (no further correction for wet weight or dry weight or reconstitution)**, together with percentage (%) recovery and limit of quantification (LoQ).
 - 3) Determine the level of residues present in the test material, **in µg/kg, in the material in the form it is received (no further correction for wet weight or dry weight or reconstitution)**, together with percentage (%) recovery and limit of quantification (LoQ):
 - All residues are to be reported **as specified in Table 1, below**. If this is not possible, use the comments box to note any residues that are *not* reported in the form specified.
 - For each residue, select either "Not Detected", "Not Tested" or "Provide Result".
 - Enter a default value for "% recovery" and "limit of quantification (LOQ) µg/kg".
 - AFTER you have entered your results for each residue you MUST review and if necessary, edit the values for "% recovery" and "limit of quantification (LOQ) µg/kg" that differ from the default value you gave.
- PLEASE NOTE: It is important that you report the results in this way so that we can include as many results as possible in the statistical analysis.
- 4) This is an identification and quantification proficiency test. Therefore, if you analyse for a residue that is in the test material, and do not identify it, and your limit of quantification is below the level needed for a z-score of **-3.0**, you will be assessed as if your result was zero.
 - 5) Instructions on how to enter your results and methods via the secure web page can be downloaded from the relevant link at: fapas.com/technical-documentation.
 - You may submit more than one set of results.
 - By default, the **first** set of results you enter are those that will be assessed in the report BUT you may instead choose any additional entries.
 - 6) When you enter your results, comments and methods please ensure you:
 - Use English, as it is the default international language.
 - Use Western characters. Entries made in other characters will be captured as symbols that are not readable.



Please ensure you submit your data no later than:

closing date 19 April 2024

You are reminded that the ability to report results in the specified units and within the given time scale are part of the proficiency test.

Please note that collusion between participants is contrary to professional scientific conduct and, as indicated in our Protocols (available at: fapas.com/technical-documentation), is strongly discouraged.

In May 2024 a statistical report on the performance of participating laboratories will be published on our secure web site. This report will be confidential and will reveal only the number assigned to your laboratory. It will not list the identities of participants.

If you have any problems please contact Fapas® immediately, email: info@fapas.com, tel: +44 (0)1904 462100.

Claire Williamson

Proficiency Test Co-ordinator

On behalf of Fapas®

Table 1: Potential Pesticide Residues in Fapas® 09167

This Maize Flour test material may contain any number of the following analytes:

| | | | | |
|---|---|--|---|---|
| 2,4-D (free acid only) | cyromazine | fensulfothion | metaflumizone (sum of E and Z isomers) | propoxur |
| 2-phenylphenol (ortho-phenylphenol) | DDD-pp (TDE) | fensulfothion-oxon | metalaxyl (sum of constituent isomers including metalaxyl-M) | propyzamide |
| 6-benzylaminopurine | DDE-pp | fensulfothion-oxon-sulfone | metamitron | proquinazid |
| abamectin (sum of avermectin B1a and B1b only) | DDT-op | fensulfothion-sulfone | metconazole | prosulfocarb |
| acephate | DDT-pp | fenthion (parent compound only) | methacrifos | prothioconazole-desthio (sum of isomers) |
| acetamiprid | deltamethrin | fenthion-sulfone | methamidophos | prothiofos |
| acetochlor | demeton-S-methyl | fenthion-sulfoxide | methidathion | pymetrozine |
| aclonifen | demeton-S-methyl-sulfone | fenvalerate (sum of constituent isomers in any ratio including esfenvalerate) | methiocarb | pyraclostrobin |
| acrinathrin | demeton-S-methyl-sulfoxide (oxydemeton-methyl) | fipronil (parent compound only) | methiocarb-sulfone | pyrazophos |
| aldicarb | diafenthuron | fipronil-desulfinyl | methiocarb-sulfoxide | pyrethrin (sum) |
| aldicarb-sulfone (aldoxycarb) | diazinon | fipronil-sulfone | methomyl | pyridaben |

| | | | | |
|---|---|---|--|---|
| aldicarb-sulfoxide | dichlorvos | flonicamid | methoxychlor | pyridalyl |
| aldrin | dicloran | fluazifop (free acid) | methoxyfenozide | pyridaphenthion |
| allethrin | dicofol (sum of p,p' and o,p' isomers) | fluazinam | metolachlor (sum of constituent isomers including S-metolachlor) | pyrimethanil |
| ametoctradin | dicrotophos | flubendiamide | metrafenone | pyriproxyfen |
| amidosulfuron | dieldrin | flucythrinate | metribuzin | quassia |
| atrazine | diethofencarb | fludioxonil | mevinphos (sum of E and Z isomers) | quinalphos |
| azinphos-ethyl | difenoconazole | flufenacet (parent compound only) | molinate | quinoxifen |
| azinphos-methyl | diflubenzuron | flufenoxuron | monocrotophos | quintozene |
| azoxystrobin | dimethoate | fluopicolide | monolinuron | spinetoram |
| benalaxyl | dimethomorph (sum of isomers) | fluopyram | myclobutanil | spinosad (sum of spinosyn A and D) |
| bendiocarb | dimoxystrobin | Fluoxastrobin (sum of fluoxastrobin and its Z-isomer) | nitrofen | spirodiclofen |
| benthiavalicarb- isopropyl | diniconazole | fluquinconazole | novaluron | spiromesifen |
| bifenthrin (sum of isomers) | dinotefuran | flusilazole | omethoate | spirotetramat (parent compound only) |
| biphenyl | diphenylamine | flutolanil | oxadiazon | spirotetramat-enol (expressed as spirotetramat) |
| bitertanol | disulfoton | flutriafol | oxadixyl | spiroxamine |
| boscalid | disulfoton-sulfone | fluvalinate (tau) | oxamyl | tebuconazole |
| bromophos-ethyl | disulfoton-sulfoxide | fluxapyroxad | oxyfluorfen | tebufenozide |
| bromopropylate | diuron | fonofos | paclobutrazol | tebufenpyrad |
| bromuconazole (sum of diastereoisomers) | dodine | fosthiazate | parathion (-ethyl) | tecnazene |
| bupirimate | Emamectin (as emamectin benzoate B1a, expressed as emamectin) | furathiocarb | parathion-methyl | teflubenzuron |
| buprofezin | endosulfan I (alpha) | haloxyfop (free acid) | penconazole | tefluthrin |
| cadusafos | endosulfan II (beta) | HCB (hexachlorobenzene) | pencycuron | terbufos |
| carbaryl | endosulfan-sulfate | HCH-A (alpha hexachlorocyclohexane) | pendimethalin | terbufos-sulfone |
| carbendazim | endrin | HCH-B (beta hexachlorocyclohexane) | penflufen | terbufos-sulfoxide |

| | | | | |
|--|--|---|---|---|
| carbofuran | EPN | HCH-G (gamma hexachlorocyclohexane / lindane) | pentachloroaniline | terbutylazine |
| carbofuran (3-hydroxy) | epoxiconazole | heptachlor | penthiopyrad | tetrachlorvinphos |
| carboxin | ethiofencarb | heptachlor-epoxide (cis) | permethrin (sum of isomers) | tetraconazole |
| chlorantraniliprole (rynaxypyr) | ethiofencarb-sulfone | heptachlor-epoxide (trans) | phenthoate | tetradifon |
| chlordane (cis) | ethiofencarb- sulfoxide | heptenophos | phorate | tetramethrin (sum of constituent isomers) |
| chlordane (oxy) | ethion | hexaconazole | phorate-sulfone | TFNA |
| chlordane (trans) | ethirimol | hexythiazox | phorate-sulfoxide | TFNG |
| chlorfenapyr | ethoprophos | imazalil | phosalone | thiabendazole |
| chlorfenvinphos (sum of E and Z isomers) | etofenprox | imidacloprid | phosmet | thiacloprid |
| chloridazon | etoxazole | indoxacarb (sum of indoxacarb and its R enantiomer) | phosphamidon | thiamethoxam |
| chlorobenzilate | etrimfos | iprodione | phoxim | thiodicarb |
| chlorothalonil | famoxadone | iprovalicarb | phthalimide | thiophanate-methyl |
| chlorpropham | fenamidone | isocarbofos | picoxystrobin | THPI |
| chlorpyrifos (ethyl) | fenamiphos | isofenphos (ethyl) | piperonyl butoxide | tolclofos-methyl |
| chlorpyrifos-methyl | fenamiphos-sulfone | isofenphos-methyl | pirimicarb | tolfenpyrad |
| chlorthal-dimethyl | fenamiphos-sulfoxide | isoprocarb | pirimicarb (desmethyl) | tolylfluanid |
| clofentezine | fenarimol | isoprothiolane | pirimiphos-ethyl | triadimefon |
| clothianidin | fenazaquin | isoproturon | pirimiphos-methyl | triadimenol |
| coumaphos | fenbuconazole | kresoxim-methyl | prochloraz (parent compound only) | triallate |
| cyazofamid | fenbutatin oxide | lenacil | procymidone | triazophos |
| cyflufenamid | fenhexamid | linuron | profenofos | tricyclazole |
| cyfluthrin (sum of constituent isomers) | fenitrothion | lufenuron | promecarb | trifloxystrobin |
| cyhalothrin-lambda (includes cyhalothrin- gamma) (sum of R,S and S,R isomers) | fenoxycarb | malaoxon | prometryn | triflumuron |
| cymoxanil | fenpropathrin | malathion | propamocarb | trifluralin |
| cypermethrin (sum of constituent isomers) | fenpropidin (sum of fenpropidin and its salts, expressed as fenpropidin) | mandipropamid | propargite | triticonazole |



| | | | | |
|---------------|-----------------------------------|-------------|---------------|-------------|
| cyproconazole | fenpropimorph (sum of isomers) | mecarbam | propetamphos | vinclozolin |
| cyprodinil | fenpyroximate | mepanipyrim | propiconazole | zoxamide |