

## American foul brood LFD Field validation summary

In 2003, the LFD kits were tested for field confirmation of AFB by the CSL team of Bee inspectors. Inspectors were asked to return both the used LFD device and the buffer containing the sample once they had been used in the field, so further testing could be completed in the laboratory to confirm the result. This involved doing a second LFD test to confirm the field result, using the routine diagnostic method on the buffer solution to identify any bacteria in the usual way, and also through isolating the bacteria from the buffer. The result of the field LFD was confirmed as valid once all the laboratory tests were done and found to correlate with each other. The table below gives a summary of the results.

### Summary of AFB LFD validation results

<b>Sample type</b>	<b>Field test positive</b>	<b>Laboratory tests positive</b>	<b>Total number</b>
AFB	34	34	34
EFB	0	0	43
Other*	0	0	52

\*Included the following sample types: bald brood, chalkbrood, sacbrood and healthy larvae

There was a 100% success rate for validation of the kits. No samples that had American foul brood as determined by our routine testing were missed by the kits, and just as importantly, none were diagnosed as positive that did not have the disease.

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