

# MicrobMonitor<sup>2</sup> Quick Guide



1

Remove the bottle cap and place on a clean surface with the inside face upwards. Transfer measured sample to **MicrobMonitor<sup>2</sup>**. Re-cap bottle. (See full instructions for appropriate sample volumes).



2

Tap bottle to break up gel.



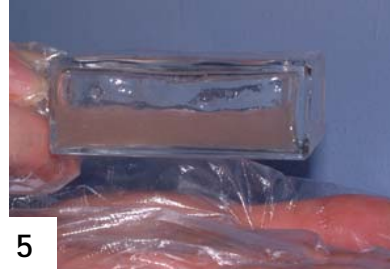
3

Shake vigorously for 30 seconds



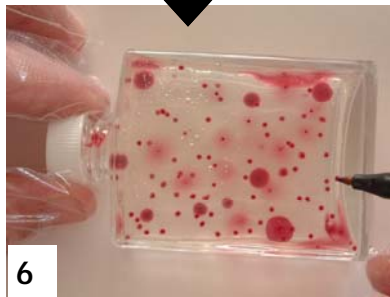
4

Flick gel into bottom of bottle.



5

Tap bottle to make a flat layer of gel. Allow to set. Keep bottle in a warm dark place at 28–30°C for 4 days, for other incubation temperatures & times see instructions. Examine daily. Try not to disturb the gel.



6

To examine test, hold bottle against a light background and count all of the red / purple colonies, marking them off on the bottle with a felt tip pen. Re-incubate and examine if necessary for up to 4 days (see NB). Mark off new colonies and add number to previous count. If numbers are high an estimate can be made by comparison to the chart provided.

Record all results and sample information.

Dispose of MicrobMonitor<sup>2</sup> by opening and immersing in strong disinfectant overnight and then discard in normal waste.

NB.

Ignore any uniform pale pink/peach colouration of the gel which can be caused by fuel additives. Ignore air bubbles which may form in the gel. Try not to disturb the gel during incubation and always leave bottle flat to prevent the gel sliding. If incubation is only possible at lower temperatures, the results will take longer to appear. Storage: Shelf life is 6 months but this may be prolonged by refrigeration (2-8 °C). Do not freeze.

MicrobMonitor<sup>2</sup> : www.microbmonitor.com E-mail: sales@microbmonitor.com

# MicrobMonitor<sup>2</sup> Calibration Chart



Appearance after incubation	Nº of CFU counted or estimated	Volume tested	Sample Contamination
	None.	0.5 ml of fuel (syringe)	Less than 2000 cfu per litre
		0.25 ml of fuel (syringe)	Less than 4000 cfu per litre
		0.1 ml of water (syringe)	Less than 10 cfu per ml
		0.01 ml of water or oil (plastic loop)	Less than 100 cfu per ml
	10 Colonies counted.	0.5 ml of fuel (syringe)	$2 \times 10^4$ cfu per litre
		0.25 ml of fuel (syringe)	$4 \times 10^4$ cfu per litre
		0.1 ml of water (syringe)	$10^2$ cfu per ml
		0.01 ml of water or oil (plastic loop)	$10^3$ cfu per ml
	100 Colonies counted	0.5 ml of fuel (syringe)	$2 \times 10^5$ cfu per litre
		0.25 ml of fuel (syringe)	$4 \times 10^5$ cfu per litre
		0.1 ml of water (syringe)	$10^3$ cfu per ml
		0.01 ml of water or oil (plastic loop)	$10^4$ cfu per ml
	Results similar to chart, estimated count 1000 colonies	0.5 ml of fuel (syringe)	$2 \times 10^6$ cfu per litre
		0.25 ml of fuel (syringe)	$4 \times 10^6$ cfu per litre
		0.1 ml of water (syringe)	$10^4$ cfu per ml
		0.01 ml of water or oil (plastic loop)	$10^5$ cfu per ml
	Results similar to chart, estimated count 10,000 colonies	0.5 ml of fuel (syringe)	$2 \times 10^7$ cfu per litre or above
		0.25 ml of fuel (syringe)	$4 \times 10^7$ cfu per litre or above
		0.1 ml of water (syringe)	$10^5$ cfu per ml or above
		0.01 ml of water or oil (plastic loop)	$10^6$ cfu per ml or above

Note: numbers of microorganisms are normally expressed per litre of fuel and per ml of water or oil.