

The background features a repeating pattern of stylized fish and shrimp icons in a light red color, interspersed with small circles representing bubbles. The fish are depicted with wavy lines on their bodies, and the shrimp are shown in profile. The bubbles are simple circles of varying sizes.

RANDOX
FOOD DIAGNOSTICS

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Malachite Green
FAST ELISA

What is Malachite Green?

Malachite green is a triphenylmethane dye which is used extensively in the aquaculture industry as an antimicrobial for the treatment of fungal and protozoal infections.

Why Test for Malachite Green?

Malachite green has been reported to cause toxicological effects on humans, including carcinogenesis, teratogenicity, and respiratory toxicity. It is easily absorbed during waterborne exposure and metabolised to the colourless compound, leucomalachite green (LMG).

LMG can persist in fatty fish tissue for long periods of time, for example, the half life in catfish muscle is 10-40 days for LMG but less than 72 hours for malachite green (MG).

Benefits



Rapid & Reliable

40 samples can be analysed within 90 minutes, giving the user accurate results in a short time frame.



Excellent Specificity

100% cross reactivity with Malachite Green and Leucomalachite Green compounds.



Excellent Shelf Life

The Malachite Green FAST ELISA has an 18-month shelf life.



Unrivalled Limits of Detection

0.25ppb LOD (total RPA for Malachite Green and Leucomalachite Green = 0.5ppb).

Assay	LOD (ppb)	Compound	Cross Reactivity %
Malachite Green	0.50 (Prawn/Shrimp/Basa)	Malachite Green*	100
		Leucomalachite Green**	100
	Crystal Violet	82	
	Leucocrystal Violet**	82	
	Brilliant Green	<1	
	0.25 (Prawn/Shrimp lower LOD method)		

*LOD is standardised to this compound | **After oxidation | Catalogue Number: MG10108A

Validated for:



Basa



Prawn



Shrimp