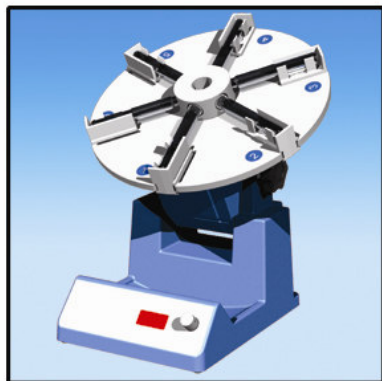


Isolate

cryptosporidium

Until recently, the manual immunomagnetic separation (IMS) procedure was the only step in the DWI approved *Cryptosporidium* method which had not been improved. **TCS Water Sciences** have now developed an automated IMS system, **Isolate** based on a kit developed by ImmuCell Corporation, USA.

Isolate is a unique product offering automated immunomagnetic separation (IMS) of *Cryptosporidium* oocysts in environmental water samples. **Isolate** is able to process pellets of up to 2 ml in volume, significantly reducing the need for split samples, and yields good recoveries even in dirty water samples. The automation of the **Isolate** test standardises the rocking motion, eliminating human error and achieving improved consistency and reliability of results.



Cryptosporidium oocysts in the concentrate are captured and separated by magnetic action. Separated oocysts are stained with an approved FITC antibody stain, and visualised by fluorescence microscopy.

TCS Water Sciences compliments the **Isolate** *Cryptosporidium* test by offering a range of high quality *Cryptosporidium* testing products; our expertise in the field of *Cryptosporidium* enables us to offer you technical support and advice. TCS offer exceptional levels of customer service to ensure you get what you want when you want it.

The following table reveals the results of a study which compared the **Isolate** system with a manual IMS test. **Isolate** achieved considerably superior results with increased recovery of *Cryptosporidium*, and greater consistency, evidenced by the narrower data ranges. The results highlight the sensitivity of the manual method to operator technique and thus the superiority of automation.

Percentage recovery of <i>Cryptosporidium</i> from an upland treated water sample.				
	Manual IMS		Isolate	
Packed Pellet	0.5ml	1ml	0.5ml	1ml
Mean (n = 10)	49.7	48.4	83.7	80.4
Range	30-82	17-91	72-92	62-89
Percentage recovery of <i>Cryptosporidium</i> from a river water sample.				
	Manual IMS		Isolate	
Packed Pellet	0.5ml	1ml	0.5ml	1ml
Mean (n = 10)	54.2	30.0	68.1	75.4
Range	45-66	25-41	60-85	58-87

Materials supplied by TCS Water Sciences:

- **Isolate** 100 Test Kit (ZAICS100)
- **Isolate** Rotator Disc and Hub (ZAICS2)
- Incu-Clip (ZAICS3), Magna-Clip (ZAICS4), Micro-Clip (ZAICS5)
- Dissociation Block (ZAICS8)
- Variable speed rotator (ZAICS1)
- Glass Leighton tubes (ZAICS6)