

JohnsonDiversey
Clean is just the beginning



JohnsonDiversey,
Technical Centre, Osier Drive,
Sherwood Park, Annesley,
Nottinghamshire
NG15 0DS

TECHNICAL SERVICE REPORT

Originator : Johanna Sumelius

Category: **Core Business**

Sector:

Customer :

Author of Report : Peter J Jones

Replied to : Johanna Sumelius

Date: 22/10/08

Details of Request:

Check long term stability of Oxivir Concentrate made up in tap water

Conclusions and Recommendations:

After 12 months there is no significant loss of Hydrogen Peroxide content which is a measure of the products activity. It can be concluded therefore that the product is stable and fit to be used 12 months after dilution.

Method & Results:

Tap water used = 260 ppm hardness (Sherwood Park Tap water)

Stability assessed by measuring hydrogen peroxide content. Material acidified and titrated with standardised Potassium Permanganate Solution (method DL-AL 012)

Oxivir Conc – Hydrogen Peroxide Content Specification 6.6 to 7.2%

Dilutions Tested 1%, 3%, 5% - Solutions kept at ambient temperature

Date	Soln Strength Undiluted	mls Taken	mls 0.1N KMnO4	% Peroxide	% Peroxide Spec min	% Peroxide Spec max	Within Specification
					6.6	7.2	
20/11/07	1	20.00	9.00	0.0765	0.066	0.072	Slightly High
	3	10.00	12.40	0.2108	0.198	0.216	Yes
	5	5.00	10.40	0.3536	0.33	0.36	Yes
18/12/07	1	20.00	9.30	0.0791	0.066	0.072	Slightly High
	3	10.00	12.50	0.2125	0.198	0.216	Yes
	5	5.00	10.60	0.3604	0.33	0.36	Yes
21/01/08	1	20.00	8.90	0.0757	0.066	0.072	Slightly High
	3	10.00	12.60	0.2142	0.198	0.216	Yes
	5	10.00	20.60	0.3502	0.33	0.36	Yes
22/04/08	1	20.00	9.10	0.0774	0.066	0.072	Slightly High
	3	10.00	12.60	0.2142	0.198	0.216	Yes
	5	10.00	20.70	0.3519	0.33	0.36	Yes
22/10/08	1	20.00	8.70	0.0740	0.066	0.072	Slightly High
	3	10.00	12.10	0.2057	0.198	0.216	Yes
	5	10.00	20.00	0.3400	0.33	0.36	Yes