**SDC 1 - Table 1. Hydrogen concentration, oxygen concentration and pH of aerated preservation solutions**

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**H2 [ppm] O2 [ppm] pH**

**gas time [hr] UW LR UW LR UW LR**

**Air 0 0.0 0.0 8.05±0.039 7.99±0.114 7.40±0.01 6.63±0.02**

**N2 0 0.0 0.0 7.74±0.149 7.72±0.259 7.40±0.01 6.68±0.02**

**H2 0 1.09 ±0.100 1.08±0.039 6.72±0.140 6.95±0.097 7.40±0.01 6.64±0.02**

**Air 1 0.0 0.0 7.93±0.032 7.99±0.002 7.39±0.01 6.60±0.04**

**N2 1 0.0 0.0 7.71±0.016 7.93±0.140 7.39±0.01 6.81±0.12**

**H2 1 0.96 ±0.065 0.85±0.038 7.61±0.317 7.23±0.053 7.40±0.00 6.74±0.04**

**Air 2 0.0 0.0 7.89±0.062 8.03±0.081 7.39±0.00 6.66±0.02**

**N2 2 0.0 0.0 7.79±0.076 7.63±0.325 7.38±0.00 6.62±0.03**

**H2 2 0.77 ±0.055 0.68±0.072 7.82±0.131 7.74±0.200 7.39±0.01 6.63±0.03**

**Air 3 0.0 0.0 7.99±0.066 7.84±0.113 7.39±0.00 6.65±0.03**

**N2 3 0.0 0.0 8.02±0.025 7.87±0.086 7.38±0.00 6.73±0.09**

**H2 3 0.57 ±0.052 0.60±0.060 7.92±0.062 8.06±0.038 7.39±0.01 6.66±0.08**

**Air 6 0.0 0.0 8.01±0.066 7.93±0.065 7.41±0.00 6.71±0.00**

**N2 6 0.0 0.0 8.05±0.050 8.05±0.051 7.40±0.00 6.67±0.01**

**H2 6 0.43 ±0.026 0.50±0.053 7.96±0.104 8.09±0.053 7.40±0.02 6.68±0.02**