

**Certificate of Analysis
GM501 Gradient 90%**

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|-------------------|-----------------|
| Batchnumber | GRAD90-2001 |
| Production date | 09 January 2020 |
| Expiry date | 31 July 2021 |
| Total volume (mL) | 18950 |

| | Results | Specifications |
|--|----------------|-----------------------|
| pH | 7,37 | 7,20-7,60 |
| Osmolality | 334 | 320-350 mOsm/kg |
| Bacterial screen | PASSED | PASSED |
| Fungal screen | PASSED | PASSED |
| Endotoxin | < 0,1 | < 0,50 EU/mL |
| Density | 1,1091 | 1.1050-1.1150 g/mL |
| Viscosity in cP (26°C) | 1,56 | < 1,65 cP |
| Sperm survival Test (4 hours exposure) | 98 | ≥ 80 % |
| Sperm survival Test (24 hours exposure) | 95 | ≥ 75 % |

Release date 24 January 2020

Released by Dr. Julia Heinzmann

Signature

p.p. Julia Heinzmann