**Supplementary Table 4. TLF Components and Concentrations**

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| **TLF components** | **Concentration (mg/ml)** |
| *TLF buffer* |
| Phosphate buffered saline with calcium & magnesium (D8662 [Sigma-Aldrich]) | NA |
| Sodium bicarbonate (S8875; CAS No. 144-55-8 [Sigma-Aldrich]) | 1.37 |
| D-Glucose (G5400; CAS No. 50-99-7 [Sigma-Aldrich]) | 0.1 |
| *Lipids* |
| Cholesteryl linoleate (C0289; CAS No. 604-33-1 [Sigma-Aldrich]) | 0.024 |
| 3,7,-Dimethyl-1,6-octadien-3yl acetate (Linalyl acetate) (L2807, CAS No. 115-95-7 [Sigma-Aldrich]) | 0.018 |
| Glyceryl trioleate (triolein) (T7140; CAS No. 122-32-7 [Sigma-Aldrich]) | 0.014 |
| Oleic acid propyl ester (O9625; CAS No. 111-59-1 [Sigma-Aldrich]) | 0.01 |
| Methyl 10-undecenoate (undecylenic acid; U8502; CAS No. 111-81-9 [Sigma-Aldrich]) | 0.0026 |
| Cholesterol (C8667; CAS No. 57-88-5 [Sigma-Aldrich]) | 0.0016 |
| *Proteins* |
| α1- acid glycoprotein from bovine plasma (G3643; CAS No. 66455-27-4 [Sigma-Aldrich]) | 0.05 |
| Fetal bovine serum (F2442 [Sigma-Aldrich]) | 0.1% |
| γ-globulins from bovine blood (G7516; CAS No. 9007-83-4 [Sigma-Aldrich]) | 0.3 |
| Milk lipocalin (β-lactoglobulin) from bovine milk (L3908 [Sigma-Aldrich]) | 1.3 |
| Lysozyme from chicken egg white (L6876; CAS No. 12650-88-3 [Sigma-Aldrich]) | 2 |
| Lactoferrin from bovine colostrum (L4765 [Sigma-Aldrich]) | 2 |
| Mucins from bovine sub-maxillary glands (M3895,Type 1-S; CAS No. 84195-52-8 [Sigma-Aldrich]) | 0.15 |

TLF, tear-like fluid.