

|            | Age (years)            | M:F | PM (hours)                 | ECD before isolation (cells/mm <sup>2</sup> ) | TBPC (%)     | Number of cells counted from each cornea.<br>The number of cells plated is half of the value below, per well |
|------------|------------------------|-----|----------------------------|---|--------------|--|
| <b>C-A</b> | 74.33 (± 1.15) [73-75] | 4:2 | 14.00 (±6.97) [6.15-19.45] | 1866.67 (±230.94) [1600-2000]                 | 9.33 (±4.04) | 160,841.26 (±22,181.25)<br>[136,778.4 – 180,471.5]   |
| <b>C-B</b> | 74.33 (± 1.15) [73-75] | 4:2 | 14.00 (±6.97) [6.15-19.45] | 1866.67 (±230.94) [1600-2000]                 | 0.46 (±0.35) | 177,305.33 (±21,935.85) [151,976 – 189,970]  |
| <b>C-C</b> | 73.00 (± 4.08) [68-78] | 4:2 | 7.72 (±5.16) [3.5-17.12]   | 2016.67 (±75.28) [1900-2100]                  | 0.52 (±0.28) | 191,553.08 (±7150.21)<br>[180,471.50 – 199,468.5]  |
| <b>C-D</b> | 72.00 (±4.77) [65-76]  | 5:1 | 7.45 (±1.32) [5.2-8.35]    | 2033.33 (±51.64) [2000-2100]                  | 0.47 (±0.28) | 193,136.16 (±4905.00) [189970 – 199,468.50]  |

Table 1: Donor characteristics and the number of cells plated from one donor cornea preserved in respective preservation medium, divided in two wells of an 8 well chamber slide.

C-A: Condition A - CS (Optisol GS – Bausch & Lomb, USA) for 7 days at 4°C

C-B: Condition B - OC (Cornea Max – Eurobio, France) for 7 days at 31°C

C-C: Condition C - OC for 28 days at 31°C

C-D: Condition D - CS for 7 days at 4°C followed by OC for 28 days at 31°C

(CS=Cold Storage and OC=Organ Culture)

PM=Post Mortem time; ECD = Endothelial Cell Density; TBPC = Trypan Blue Positive Cells; M:F = Male:Female

The results are indicated as Mean (SD) [Range].