*Taken directly from Canadian Society of Transfusion Medicine. (April 2017). *Standards for Hospital Transfusion Services, Version 4*

## Appendix B: Blood Component Storage Temperatures, Trasportation Temperatures and Expiry Times

*Note: Supplier's Circular of Information for storage and expiration shall take precedence over this table as appropriate.*

| Blood Component | Storage | Transport | Expiry | Additional Comments | CSA Z902-15 Clauses |
|---|---|---|---|---|---|
| Whole blood | 1–6°C | 1–10°C<br>Max 24 hour transport time | Dependent on bag used by the collecting facility.<br>CPDA-1 - 35 days | most likely - Autologous donations | 6.3.1<br>6.3.2<br>9.5.2.2 |
| Red Blood Cell Components – Leukocyte Reduced (except as detailed below) | 1–6°C | 1–10°C<br>Max 24 hour transport time | SAGM – 42 days | or as recommended by blood supplier | 7.5.1.4<br>7.5.1.5<br>9.5.2.2 |
| Red cells-Washed | 1–6°C | 1–10°C<br>Max 24 hour transport time | 7 days - if prepared by a Health Canada approved closed system<br><br>24 hours – if prepared in in an open system | or as recommended by blood supplier | 7.5.3.4<br>9.5.2.2 |
| Red cells-Frozen | temperature dependent on cryoprotectant | keep frozen | 10 years | the expiration time may be extended in the case of a rare phenotype beyond 10 years with the approval of the Medical Director | 7.5.2.8 |
| Red cells-Thawed (previously frozen) | 1–6°C | 1–10°C<br>Max 24 hour transport time | 24 hours | or as recommended by blood supplier | 7.5.2.9<br>9.5.2.2 |

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|---|---|---|---|---|---|
| Red Blood Cells-Rejuvenated | 1–6°C frozen at appropriate temperature | 1–10°C Max 24 hour transport time | 24 hours | the expiration time may be extended if a system licensed by Health Canada is used | 7.5.5.2<br>9.5.2.2 |
| Platelets and Platelet-pheresis | 20–24°C | 20–24°C (cessation of agitation maximum 24 hrs) | 7 days | gentle agitation except during transport | 7.7.5<br>9.5.2.3<br>7.11.4 |
| Pooled platelets (Open system) | 20–24°C | 20–24°C | 4 hours | gentle agitation except during transport | 7.11.3<br>9.5.2.3 |
| Granulocytes | 20–24°C | 20–24°C | 24 hours from end of collection | without agitation | 7.8.2<br>9.5.2.3 |
| Frozen Plasma | Less than or equal to -18°C | keep frozen | 12 months | | 7.6.2.2<br>9.5.2.3 |
| Apheresis Fresh Frozen Plasma | Less than or equal to -18°C | keep frozen | 12 months | | 7.6.2.1<br>9.5.2.3 |

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| Blood Component | Storage | Transport | Expiry | Additional Comments | CSA Z902-15 Clauses |
|---|---|---|---|---|---|
| Frozen Plasma (after thawed) | 1–6°C | 1–6°C | 5 days if collected and maintained in a closed system<br>24h if system has been open at any time since time of collection or at a transfusion facility | thaw at 30 – 37°C or use an approved microwave device | 7.6.2.3<br>9.5.2.2 |
| Apheresis Fresh Frozen Plasma (after thawed) | 1–6°C | 1–6°C | 24 hours | thaw at 30 – 37°C or use an approved microwave device | 7.6.2.3<br>9.5.2.2 |
| Cryosupernatant plasma | Less than or equal to18°C | keep frozen | 12 months | | 7.6.4.3<br>9.5.2.3 |

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| Blood Component | Storage | Transport | Expiry | Additional Comments | CSA Z902-15 Clauses |
|---|---|---|---|---|---|
| Cryosupernatant plasma (after thawed) | 1–6°C | 1–6°C | 5 days if collected and maintained in a closed system<br><br>24h if system has been open at any time since time of collection or at a transfusion facility | thaw at 30 – 37°C or use an approved microwave device | 7.6.4.4<br>7.6.4.5<br>9.5.2.2 |
| Cryoprecipitate | Less than or equal to 18°C | keep frozen | 12 months | | 7.6.3.1<br>9.5.2.3 |
| Cryoprecipitate(after thawed) | 20–24°C | 20–24°C | 24 hours if collected and maintained in a closed system<br>4 hours if system has been open at any time since time of collection or at a TS as in pooling | thaw at 30 – 37°C or use an approved microwave device | 7.6.3.3<br>7.6.3.4<br>9.5.2.3 |

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| Blood Component | Storage | Transport | Expiry | Additional Comments | CSA Z902-15 Clauses |
|---|---|---|---|---|---|
| Irradiated blood components | Refer to product category above | Refer to product category above | Red Cells may be irradiated up to 28 days post collection. Irradiated red cells shall be transfused as soon as possible, preferably within 14 days after irradiation or within 28 days after the unit was collected. A shorter expiry date may apply to irradiated blood components intended for transfusion of neonates, follow facility irradiation policy | | 7.12.6<br><br>NAC Recommendations 2017 |