### **Blood Requirements by Compatible Groups**

**Group 1: O Negative (155-178p)**

* Aurevia S004: 83-96p (800 × 3mL × 4% × 1.10-1.15)
* OneWorld Sample B: 72-82p (1000 × 2mL × 4% × 1.08-1.10)
* Can share with: ISLA 2025-964 (7.5p), ISLA 2025-652/653 (7p)
* **Source**: Mirrscitech O Neg rr (22p) + order 1 unit

**Group 2: B Negative s-neg (167-192p)**

* Aurevia S001: 117-135p (800 × 4mL × 4% × 1.10-1.15)
* OneWorld Sample D: 50-57p (1000 × 1.5mL × 4% × 1.06-1.08)
* **Source**: Order 1 unit (cannot share due to s-neg requirement)

**Group 3: A Negative (153-177p)**

* Aurevia S002: 70-81p (800 × 2.5mL × 4% × 1.08-1.10)
* Aurevia S003: 83-96p (800 × 3mL × 4% × 1.08-1.10)
* **Source**: Order 1 unit

**Group 4: O Positive DAT/IgG Coating (165-194p)**

* Aurevia S006/S001 DAT/S002 DAT: 153-182p (with 25-30% overage)
* ISLA 2025-651/654/655: 12p
* **Source**: Order 1 unit O Pos (homozygous D preferred)

**Group 5: O Positive Fyb-neg (for samples requiring) (142-164p)**

* OneWorld DATG A: 44-51p
* OneWorld IMHE-A/IMHX-A: 61-71p
* OneWorld IMHX-C: 37-42p
* **Source**: Can use HQC if ordered as Fyb-neg

**Group 6: O Positive Fyb-pos (167-195p)**

* Aurevia S002: 47-57p
* Aurevia S005: 83-96p
* OneWorld IMHX-D: 37-42p
* **Source**: Can use HQC overage + partial unit

### **Standing Order Utilization**

**HQC (arriving 2025-09-18, expires ~2025-10-30):**

* Total: 9 units (3 AsubB, 3 O Pos, 3 A1 Neg)
* Overage available: ~270p (1.5 units)
* Can share with all three events

**Mirrscitech/Korea (arriving 2025-09-16, expires ~2025-10-28):**

* A1 Pos R1R1: 180p total, ~22p for ISLA
* B Pos R2R2: 180p total, ~22p for ISLA
* O Neg rr: 180p total, ~22p for ISLA
* Limited sharing due to early expiration

**C3 Bonus Unit:**

* 180p O blood available for any O type need

### **Optimized Order Summary**

**New Units to Order:**

1. 1 unit B Neg s-neg (covers Group 2)
2. 1 unit A Neg (covers Group 3)
3. 1 unit O Neg (covers Group 1 remainder)
4. 2 units O Pos (specify Fyb-neg for one)
5. 1 unit O Pos for DAT coating (R2R2 preferred)

**Total: 6 new units**

**Using from inventory:**

* HQC overage: 270p
* Mirrscitech: 66p (ISLA only)
* C3 bonus: 180p

### **Key Differences from Your Manual BUP**

1. You correctly identified 6 units needed
2. Your volume calculations (1,000-1,200mL) align with mine
3. Main difference: I'm suggesting to request specific Fyb typing on HQC orders to maximize compatibility