# Test Definition: BUAUC

Busulfan, Intravenous Dose, Area Under the Curve (AUC), Plasma

**Reporting Title:** Busulfan, IV Dose, AUC, P
**Performing Location:** Rochester

## Specimen Requirements:

Four plasma specimens with different draw times (keep all specimens under 1 order) are required.

Collection Container/Tube: Green top (sodium heparin)
Submission Container/Tube: Plastic vials
Specimen Volume: 1 mL
Collection Instructions:
1. The first specimen should be drawn immediately after termination of intravenous infusion of 0.8 mg/kg busulfan.
2. Additional specimens should also be drawn at 1 hour, 2 hours, and 4 hours after termination of infusion.
3. Label each specimen appropriately (exact time of draw).
Forms: Busulfan Information Sheet (Supply T599) in Special Instructions

| Specimen Type | Temperature | Time |
|---|---|---|
| Plasma Na Heparin | Frozen (preferred) | 7 days |
| | Refrigerated | 24 hours |

## Ask at Order Entry (AOE) Questions:

| Test ID | Question ID | Description | Type | Reportable |
|---|---|---|---|---|
| DOSE | DSE | Initial Dose | Plain Text | Yes |
| DOSE | DAT16 | Infusion Start Date | Plain Text | Yes |
| DOSE | TM82 | Infusion Start Time | Plain Text | Yes |
| DOSE | DAT17 | Infusion Stop Date | Plain Text | Yes |
| DOSE | TM65 | Infusion Stop Time | Plain Text | Yes |
| DOSE | W8 | Weight | Plain Text | Yes |
| BU2H | DRDT2 | Draw Date | Plain Text | Yes |
| BU2H | DRTM2 | Draw Time | Plain Text | Yes |
| BU3H | DRDT3 | Draw Date | Plain Text | Yes |
| BU3H | DRTM3 | Draw Time | Plain Text | Yes |
| BU4H | DRDT4 | Draw Date | Plain Text | Yes |
| BU4H | DRTM4 | Draw Time | Plain Text | Yes |
| BU6H | DRDT6 | Draw Date | Plain Text | Yes |

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| Test ID | Question ID | Description | Type | Reportable |
|---|---|---|---|---|
| BU6H | DRTM6 | Draw Time | Plain Text | Yes |

## Result Codes:

| Result ID | Reporting Name | Type | Unit | LOINC® |
|---|---|---|---|---|
| DSE | Initial Dose | Alphanumeric | | In Process |
| DAT16 | Infusion Start Date | Alphanumeric | | N/A |
| TM82 | Infusion Start Time | Alphanumeric | | In Process |
| DAT17 | Infusion Stop Date | Alphanumeric | | In Process |
| TM65 | Infusion Stop Time | Alphanumeric | | In Process |
| W8 | Weight | Alphanumeric | | 29463-7 |
| 24220 | Age | Numeric | yr | 30525-0 |
| 24225 | Area Under the Curve, (0-6 Hour) | Numeric | | In Process |
| 24226 | Clearance | Numeric | | In Process |
| 24227 | Recommended Dose | Numeric | mg q6h | In Process |
| DRDT2 | Draw Date | Alphanumeric | | 33882-2 |
| DRTM2 | Draw Time | Alphanumeric | | 49049-0 |
| 24221 | Busulfan result | Numeric | ng/mL | 15363-5 |
| DRDT3 | Draw Date | Alphanumeric | | 33882-2 |
| DRTM3 | Draw Time | Alphanumeric | | 49049-0 |
| 24222 | Busulfan result | Numeric | ng/mL | In Process |
| DRDT4 | Draw Date | Alphanumeric | | 33882-2 |
| DRTM4 | Draw Time | Alphanumeric | | 49049-0 |
| 24223 | Busulfan result | Numeric | ng/mL | In Process |
| DRDT6 | Draw Date | Alphanumeric | | 33882-2 |
| DRTM6 | Draw Time | Alphanumeric | | 49049-0 |
| 24224 | Busulfan result | Numeric | ng/mL | In Process |

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## Components:

| Test ID | Reporting Name | CPT Units | CPT Code | Always Performed | Orderable Separately |
|---|---|---|---|---|---|
| DOSE | Busulfan, IV Dose, AUC, P | 4 | 80299 | Yes | No |
| BU2H | Busulfan, Immediate Post Infusion | | | Yes | No |
| BU3H | Busulfan, 1hr Post Infusion | | | Yes | No |
| BU4H | Busulfan, 2hr Post Infusion | | | Yes | No |
| BU6H | Busulfan, 4hr Post Infusion | | | Yes | No |

## Reference Values:

AREA UNDER THE CURVE
900-1,500 mcmol*minute
CLEARANCE
2.1-3.5 (mL/minute)/kg