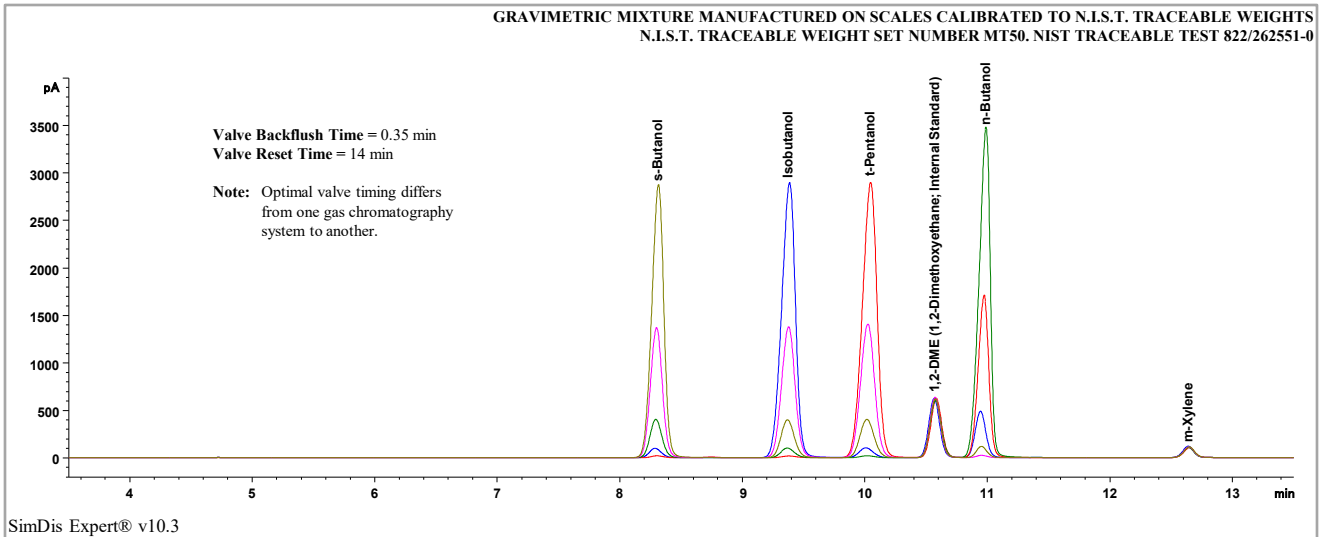


# Certificate of Analysis

## SD-ASTM-D4815-B Lot # 080217ES

**Part Number:** SD-ASTM-D4815-B  
**Lot Number:** 080217ES  
**Product Description:** Calibration standard for ASTM D4815;  
diluted in isoctane/m-xylene; levels 1-5

**Ampule Contents:** ≥ 1 mL  
**Shelf Life:** 60 months  
**Expiration Date:** 08/2022



**Column:** 30" x 1/16" TCEP (Pre-column) and 30m x 0.53mm x 3.0µm PDMS (Analytical Column) **Inlet:** S/SL at 200°C with 25:1 split  
**Carrier:** UHP He at 5 mL/min (inlet) and 3 mL/min (auxiliary) **Oven:** 40°C (2 min hold) to 60°C at 10°C/min (6 min hold) to 100°C at 15°C/min (8 min hold)  
**Detector:** FID at 250°C **Valve:** 60°C; OFF at 0 min, ON at 0.35 min, OFF at 14 min **Injection Volume:** 2.0 µL

L E V E L	C O M P O N E N T					Total Solution (g)
	s-Butanol (g)	Isobutanol (g)	t-Pentanol (g)	n-Butanol (g)	1,2-DME (I.S.) (g)	
SD-ASTM-D4815-B-1 (Level 1)	0.1660	4.8992	0.1664	0.6695	1.7577	30.9288
SD-ASTM-D4815-B-2 (Level 2)	0.0306	0.0308	4.8799	2.3103	1.7589	30.7648
SD-ASTM-D4815-B-3 (Level 3)	0.6688	0.1679	0.0315	4.9428	1.7626	30.7632
SD-ASTM-D4815-B-4 (Level 4)	2.2954	2.3051	2.3003	0.0309	1.7675	30.7585
SD-ASTM-D4815-B-5 (Level 5)	4.8964	0.6651	0.6691	0.1668	1.7714	30.9415

**Analyst:** \_\_\_\_\_

 **Separation Systems, Inc.**  
Experts in Gas Chromatography

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