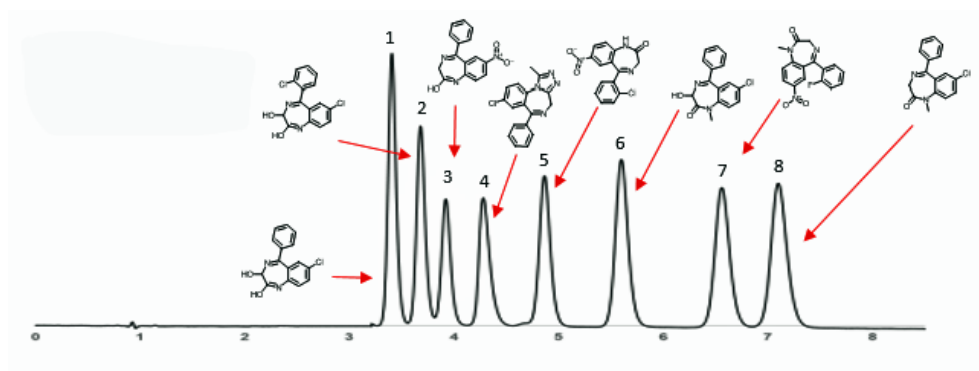


## Excellent Separation of Benzodiazepine Compounds with HPLC – AppNote

### An Analysis of 8 Benzodiazepine Compounds

This isocratic method demonstrates an effective method for 8 different benzodiazepine compounds with excellent separations. Using the column in this method provides different selectivity and improved efficiency compared to a standard C18 column.



**Peaks:**

1. Oxazepam, 2. Lorazepam, 3. Nitrazepam, 4. Alprazolam  
5. Clonazepam, 6. Temazepam, 7. Flunitrazepam, 8. Diazepam

### Method Conditions:

**Column:** Cogent Biphenyl™, 3μm, 120Å

**Catalog No.:** 61325-10P-2

**Dimensions:** 2.1mm x 100mm

**Mobile Phase:**

Acetonitrile, DI Water, Formic Acid (37:63:0.1, v/v/v)

**Flow rate:** 0.3mL / minute

**Injection vol.:** 1μL

**Column Temperature:** 25° C

**Detection:** UV @ 254nm

*Note 1: On standard C18 columns, with the same method, typically Peaks 1 & 3 co-elute, Peaks 2 & 4 as well as Peaks 7 & 6 are not baseline resolved.*