



**SIGMA-ALDRICH**

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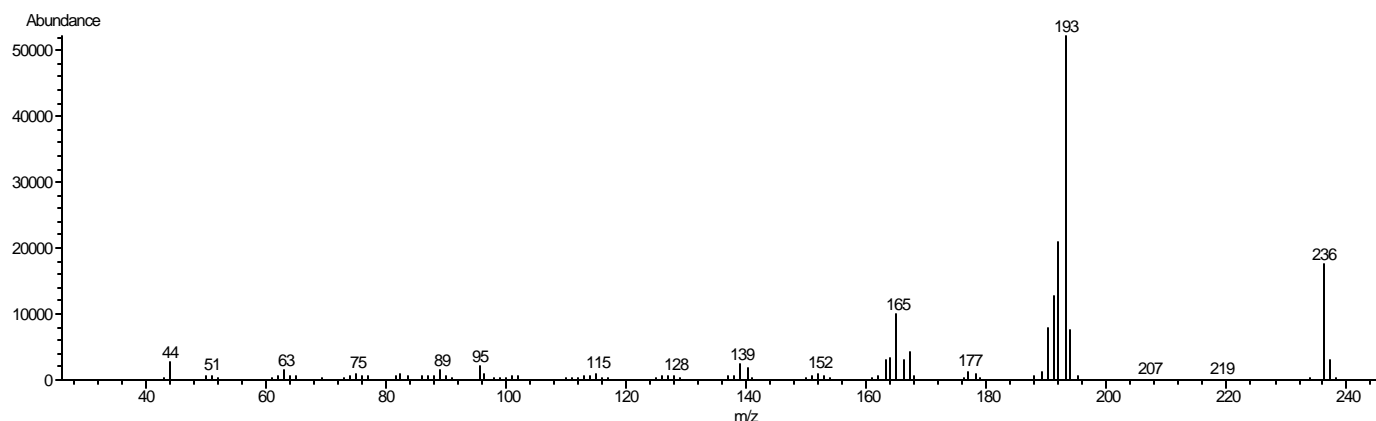
## Product Information

### CARBAMAZEPINE

Methanol Solution

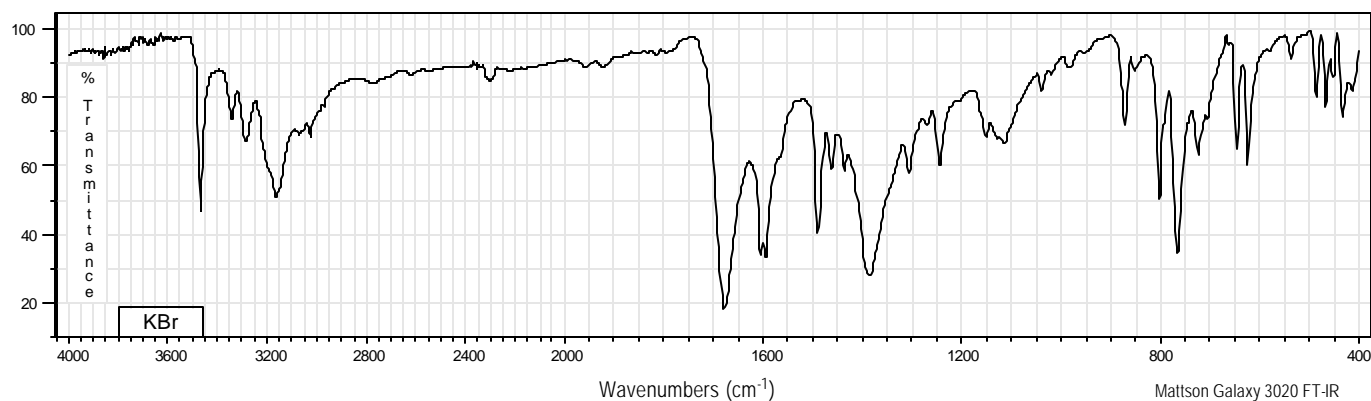
<b>Product Number</b>	C 1037	<b>Synonyms</b>	5-Carbamoyl-5H-dibenz[b,f]azapine
<b>Lot Number</b>	22K8805	<b>Stability</b>	If stored at 2-8°C in an air tight container, protected from light, decomposition of the product is less than 1% in 48 months. After opening, concentration may change due to loss of solvent.
<b>CAS Number</b>	[298-46-4]	<b>Expiration Date</b>	October 2006
<b>Concentration</b>	0.99 mg Carbamazepine/mL GC grade methanol (conc. verified by UV)	<b>Storage</b>	2-8°C; After opening, transfer contents to small vial provided for your convenience.
<b>Molecular Formula</b>	C <sub>15</sub> H <sub>12</sub> N <sub>2</sub> O		
<b>Molecular Weight</b>	236.3		
<b>DEA Class</b>	Formulation of non controlled substance		

70 eV Electron Ionization Mass Spectrum



Hewlett-Packard 5890 Series II Gas Chromatograph  
Hewlett-Packard 5971 Mass Selective Detector  
Hewlett-Packard G1034C MS ChemStation (HP-DOS series)

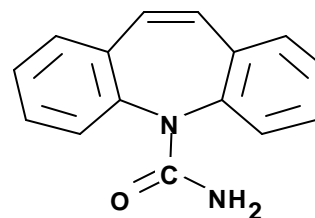
FT-IR



Mattson Galaxy 3020 FT-IR

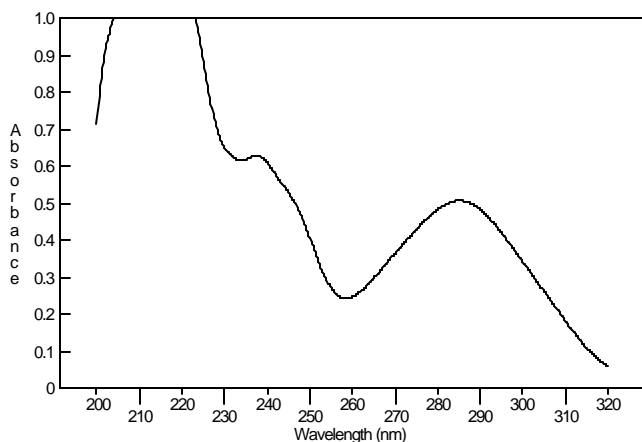
# CARBAMAZEPINE

Methanol Solution  
Product Number C 1037  
Lot Number 22K8805



## Ultraviolet Spectrum

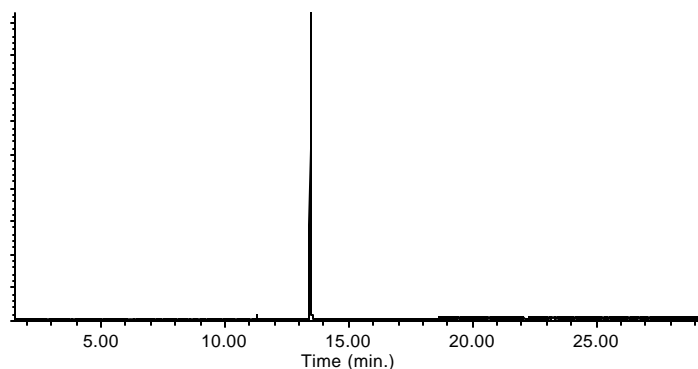
<b>Peak</b>	285.5 nm
<b>Absorbance</b>	0.5078
<b>Solvent</b>	Methanol
<b>Dilution</b>	1 : 99 (v/v)



Bio-Tek Uvikon XL

## Capillary Gas Chromatography

<b>Column</b>	Supelco SPB-1 (Cat. No. 2-4162)				
<b>I.D.</b>	0.20 mm	<b>Length</b>	15 m	<b>Film Thickness</b>	0.20 μm
<b>Oven Temperature</b>	50°C (2 min.), then 15°/min. to 300°C, hold 11 min.				
<b>Injector Temperature</b>	200°C, Split				
<b>Detector</b>	Hewlett-Packard 5971 Mass Selective Detector (70 eV, 40-500 m/z)				



Hewlett-Packard 5890

C 1037/22K8805/02/22/02

This product is not for *in vitro* diagnostic procedures. For R&D use only. Not for drug, household or other uses.

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