



3050 Spruce Street
Saint Louis, Missouri 63103 USA
Telephone 800-325-5832 • (314) 771-5765
Fax (314) 286-7828
email: techserv@sial.com
sigma-aldrich.com

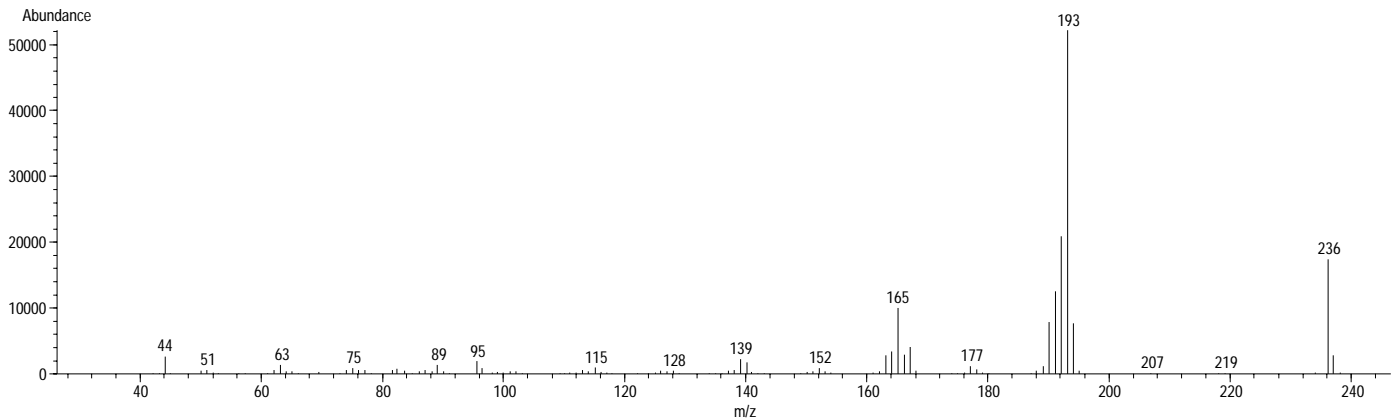
Product Information

CARBAMAZEPINE

Methanol Solution

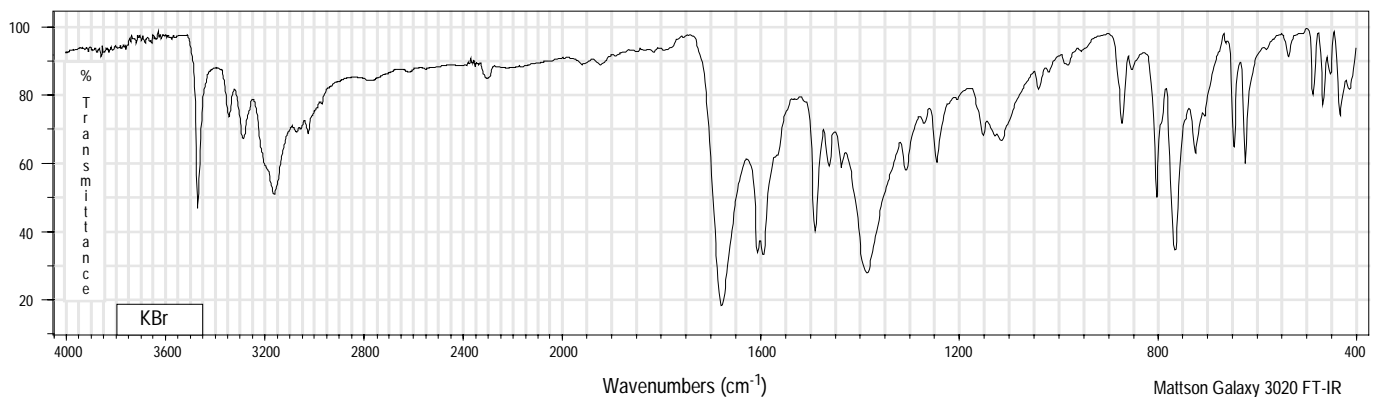
Product Number	C 1037	Synonyms	5-Carbamoyl-5H-dibenz[b,f]azapine
Lot Number	22K8805	Stability	If stored at 2-8°C in an air tight container, protected from light, decomposition of the product is less than 1% in 48 months. After opening, concentration may change due to loss of solvent.
CAS Number	[298-46-4]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

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



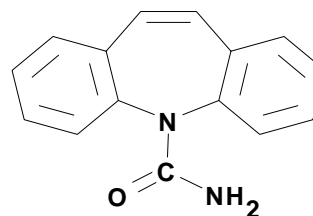
Mattson Galaxy 3020 FT-IR

CARBAMAZEPINE

Methanol Solution

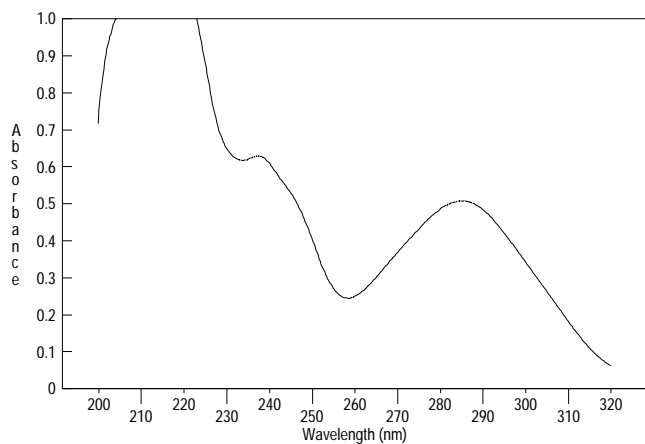
Product Number C 1037

Lot Number 22K8805



Ultraviolet Spectrum

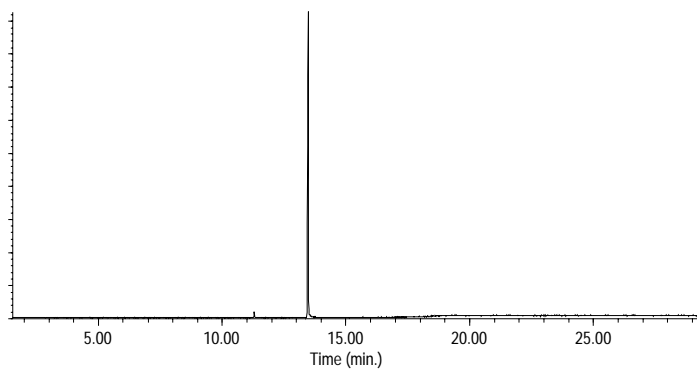
Peak	285.5 nm
Absorbance	0.5078
Solvent	Methanol
Dilution	1 : 99 (v/v)



Bio-Tek Uvikon XL

Capillary Gas Chromatography

Column Supelco SPB-1 (Cat. No. 2-4162)
I.D. 0.20 mm **Length** 15 m **Film Thickness** 0.20 μ m
Oven Temperature 50°C (2 min.), then 15°/min. to 300°C, hold 11 min.
Injector Temperature 200°C, Split
Detector 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.

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications.

Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply.

Please see reverse side of the invoice or packing slip.