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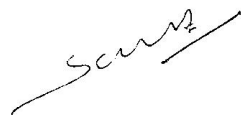
Manufacturing site:

825 Dillon Drive
Wood Dale, IL 60191

Certificate of Analysis

Catalog Number	06374
Product Name	Z-Gla(OtBu) ₂ -OH Z- γ -carboxy- γ -(di-t-butyl ester)-L-glutamic acid, Z- γ -carboxy-Glu(OtBu) ₂ -OH
Lot Number	06374-021005-V
Molecular Formula	C ₂₂ H ₃₁ NO ₈
Molecular Weight	437.52
Melting Point	87.5 - 90 °C (crystals from diisopropyl ether/hexanes)
Specific Rotation	[α] _D = -10.8 °(C=1; Methanol)
Chromatography	
TLC	Chloroform : Methanol : Acetic acid 17:2:1 R _f = 0.78
HPLC	Purity 98.6%, Kromasil C ₈ column, gradient elution 75-100% B, t _R = 8.5 min, λ =214 nm, flow rate 1 mL/min, injection 1 μ L of 0.5% solution in methanol. A = water : trifluoroacetic acid 100:0.5 B = acetonitrile:water:trifluoroacetic acid 83:17:0.38
Optical Purity	> 99.8 % according to Marfey procedure
Storage	Store at 0-5°C.
Remarks	See material safety data sheets for additional information. For laboratory use only.

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Sashi Kumar
Quality Control Manager