

Certificate Of Analysis

Quality Control Testing and Research Application COA Preparation Date: 25/09/2013

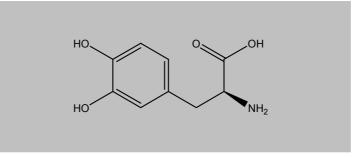
COA Revision Date: 25/09/2016

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Product:	Levodopa
Cat. No.:	BG0419
Batch No.:	0419BG/01
Chemical Name:	2-Amino-3-(3,4-dihydroxyphenyl)-propanoic acid; L-DOPA; 3,4-Dihydroxy-L- phenylalanine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₉ H ₁₁ NO ₄
Batch Molecular Weight:	197.19
CAS No.:	[59-92-7]
Physical Appearance:	White crystalline powder
Melting Point:	276 - 278° C
Solubility:	Soluble to 40 mM in water
Storage:	RT
Batch Molecular Structure:	



Product Description:

References:

Natural isomer of the immediate precursor of Dopamine and product of Tyrosine hydroxylase. Is used to replace Dopamine lost in Parkinson's disease, because Dopamine itself cannot cross the blood-brain barrier where its precursor can. However, L-DOPA is converted to Dopamine in the periphery as well as in the CNS, so it is administered with a peripheral DDC (Dopamine Decarboxylase) inhibitor such as Carbidopa and with a COMT inhibitor if possible.

1. Tabar et al. (1989) Pharmacol Biochem Behav 33:139; 2. De Souza Silva et al. (1997) J Neurochem 68:233; 3. Feigin (2001) Neurology 57:2083



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BG0419 Levodopa

2. ANALYTICAL DATA

HPLC:

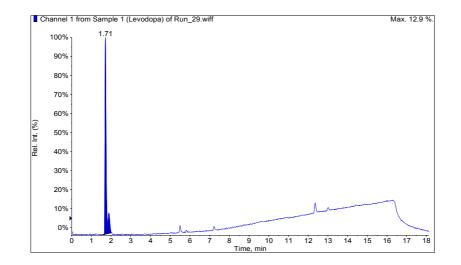
corresponds to the reference

MS:

corresponds to the reference

Tests:

pH: 5.60 (complies); Specific optical rotation: -162.5° (complies); Loss on drying: 0.027% (complies); Heavy Metals: < 10 ppm (complies); HPLC Assay: 99.65% (complies).



- CAUTION - Not fully tested. For Research use only. Not for human use. -