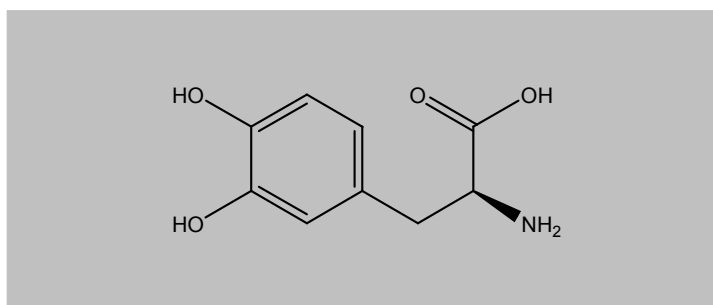


Certificate Of Analysis
Quality Control Testing and Research ApplicationCOA Preparation Date: 25/09/2013
COA Revision Date: 25/09/2016

Product: Levodopa
Cat. No.: BG0419
Batch No.: 0419BG/03
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: C₉H₁₁NO₄
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: 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.

References: 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

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

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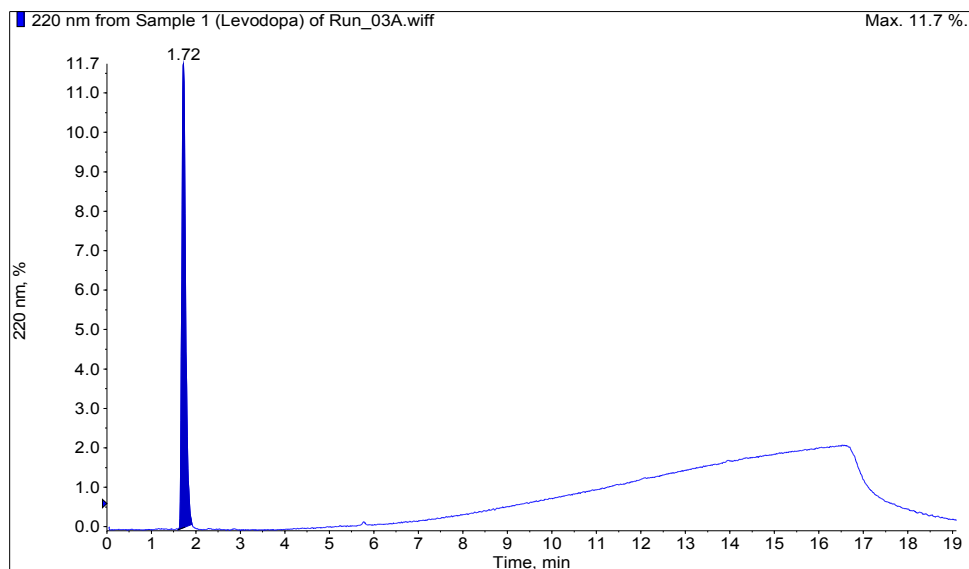
BG0419 Levodopa

2. ANALYTICAL DATA

HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: pH: 5.60 (complies); Specific optical rotation: -162.8° (complies); Loss on drying: 0.31% (complies); Heavy Metals: < 20 ppm (complies); HPLC Assay: 99.31% (complies).



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