

# Chem-Impex International, Inc.

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825 Dillon Drive

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## Certificate of Analysis

<b>Catalogue Number</b>	31886
<b>Lot Number</b>	002085-170501
<b>Product</b>	<b><i>N</i>-[(2<i>S</i>,3<i>R</i>)-3-Amino-2-hydroxy-4-phenylbutyryl]-L-leucine</b> Ubenimex
<b>CAS Number</b>	58970-76-6
<b>Molecular Formula</b>	C <sub>16</sub> H <sub>24</sub> N <sub>2</sub> O <sub>4</sub>
<b>Molecular Weight</b>	308.38

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<b>Appearance</b>	White powder
<b>Melting Point</b>	226.5 - 226.9°C (dec.)
<b>Heavy Metals</b>	10 ppm
<b>pH</b>	4.7
<b>TLC System</b>	One spot
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = - 16.43 ° (C=1 in 1N HCl )
<b>Infrared Spectrum</b>	Conforms to structure
<b>Loss on Drying</b>	0.46%
<b>Related Substances</b>	< 2.0%
<b>Residue On Ignition</b>	0.02%
<b>Assay by titration</b>	99.43%
<b>Purity by HPLC</b>	99.88%
<b>Storage</b>	Store at 0-8 °C
<b>Additional Information</b>	Identification : Reaction with CuSO <sub>4</sub> in NaOH solution, Reaction with 20% Acetic acid, Ninhydrin and NaOH solution.

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**Remarks**

See material safety data sheet for additional information

For laboratory use only

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



**Bala Kumar**  
**Quality Control Manager**