

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	00151
<b>Lot Number</b>	000021-46518800
<b>Product</b>	<b>Flavin adenine dinucleotide disodium salt</b> FAD•2Na hydrate
<b>CAS Number</b>	84366-81-4
<b>Molecular Formula</b>	C <sub>27</sub> H <sub>31</sub> N <sub>9</sub> O <sub>15</sub> P <sub>2</sub> Na <sub>2</sub>
<b>Molecular Weight</b>	829.52

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<b>Appearance</b>	Yellow-orange powder
<b>Appearance of Solution</b>	Clear, yellow orange solution (C=20 mg/mL in water)
<b>Heavy Metals</b>	< 10 ppm (as Pb)
<b>Water Content (Karl Fisher)</b>	3.6%
<b>pH</b>	5.7
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -23.6 ° (C=20 mg/mL in H <sub>2</sub> O)
<b>Infrared Spectrum</b>	Conforms to structure
<b>UV Ratios</b>	Abs. max at 450 nm, e = 11.300 ± 4%, pH 7
<b>Assay (anhydrous basis)</b>	100% (Spectrophotometry)
<b>Storage</b>	Store at ≤ -4 °C
<b>Remarks</b>	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