

# Chem-Impex International, Inc.

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825 Dillon Drive

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## Certificate of Analysis

<b>Catalogue Number</b>	21471
<b>Lot Number</b>	000156-29036-2
<b>Product</b>	<b><math>\alpha</math>-D-Galactose monophosphate dipotassium salt pentahydrate</b> $\alpha$ -D-Galactopyranosyl phosphate dipotassium salt pentahydrate
<b>CAS Number</b>	19046-60-7
<b>Molecular Formula</b>	C <sub>6</sub> H <sub>11</sub> O <sub>9</sub> P•2K•5H <sub>2</sub> O
<b>Molecular Weight</b>	426.39

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<b>Appearance</b>	White crystalline powder
<b>Appearance of Solution</b>	Colorless solution (5% in water)
<b>Turbidity</b>	0.2 NTU (0.5% in water)
<b>Water Content (Karl Fisher)</b>	21.5%
<b>Optical Rotation</b>	$[\alpha]^{20}_D = 81.2^\circ$ (C=2 in water)
<b><sup>13</sup>C NMR</b>	Conforms to structure
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b><sup>31</sup>P NMR</b>	Conforms to structure
<b>Purity</b>	99%
<b>Storage</b>	Store at 0 - 8 °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