

## Certificate of Analysis

<b>Product Name</b>	1,2-Propanediol	<b>Batch No.</b>	M24M11151
<b>CAS No.</b>	57-55-6	<b>MFG. Date</b>	Nov 15, 2024
<b>CAT No.</b>	R022211	<b>Retest Date</b>	Nov, 2026
<b>Items</b>	<b>Specification</b>	<b>Results</b>	
<b>Appearance</b>	Colorless clear viscous liquid	Conforms	
<b>Density</b>	1.035—1.037	1.036	
<b>PG refractive index of pharmaceutical excipients</b>	1.431—1.433	1.4328	
<b>sulfate</b>	≤0.006%	<0.006%	
<b>Acidity</b>	≤0.50 ml	0.10ml	
<b>Cl<sup>-</sup></b>	≤0.007%	<0.007%	
<b>Oxidizing substances</b>	≤0.20,ml	ND	
<b>DEG</b>	≤0.001%	ND	
<b>DPG</b>	≤0.1%	0.0085%	
<b>TPG</b>	≤0.03%	ND	
<b>PO</b>	≤0.001%	ND	
<b>Water</b>	≤0.15%	0.090%	
<b>Residue on ignition</b>	≤2.5 mg	0.6 mg	
<b>Heavy metal</b>	≤0.0005%	<0.0005%	

<b>As</b>	$\leq 0.0002\%$	$< 0.0002\%$
<b>Assay</b>	$\geq 98.5\%$	99.768%
<b>Ethylene glycol</b>	$\leq 0.02\%$	ND
<b>Conclusion</b>	Corresponds.	
<b>Storage Condition</b>	Keep container tightly closed in a dry and well-ventilated place.	

**QC:***Alex Foster***QA:***Felix Hobart*