



## TYPICAL CERTIFICATE OF ANALYSIS

<b>Product</b> : Quinine Sulphate IP			Page 1 of 1
<b>Reference</b> : Indian Pharmacopoeia			
<b>Manufactured By</b> : Nicotine Vault		<b>Product code</b> : QS	
<b>Self Life (Retest Date)</b> : 3 years			
SR.NO	TESTS	SPECIFICATION	RESULTS
1	<b>Appearance</b>	White or almost white, needle-like crystals or a crystalline powder.	White crystalline powder.
2	<b>Solubility</b>	Freely soluble in a mixture of 2 volumes of chloroform and 1 volume of ethanol, Sparingly soluble in boiling water, sparingly soluble in ethanol (95%), slightly soluble in water, very slightly in chloroform, practically insoluble in ether.	Complies
3	<b>Identification A,B,C,D</b>	Test A) By TLC B) By colour test C) By fluorescence test D) To give reaction of sulphates	Complies Complies Complies Complies
4	<b>Appearance of solution</b>	Solution is clear and not more intensely colored than reference solution GYS4	Complies
5	<b>pH</b>	5.7 to 6.6	6.10
6	<b>Specific Optical Rotation</b>	-237.0° to -245.0°	-240.04°
7	<b>Other cinchona alkaloids by HPLC</b>		
7.1	<b>Dihydroquinine</b>	Not more than 10.0%	1.86%
7.2	<b>Any related substance Eluted before quinine</b>	Not more than 5.0%	0.67%
7.3	<b>Any other related substance</b>	Not more than 2.5%	0.05%
8	<b>Loss on drying</b>	3.0% to 5.0%	3.42%
9	<b>Sulphated ash</b>	Not more than 0.1%	0.06%
10	<b>Assay (on dry basis)</b>	99.0% to 101.0%	99.87%
<b>REMARK</b> : As opinion of under signed product is <u>Complies/ does not Comply</u> as per prescribe Standard IP-2022.			