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Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)  
Works : Plot No.1022, Modern Industrial Estate, Bahadurgarh-124507, Haryana (India)  
Telephone : 0091 - 11 - 23646422 E-mail : tecpharm@gmail.com  
Website : www.technopharmchem.com

### CERTIFICATE OF ANALYSIS

Name of the Sample : Alizarin Red – S AR  
Batch No. : 224451  
Date of Mfg. : Jan 2021  
Date of Exp. : Dec 2025  
Register No. : 2021-22  
Qty of Sample : 100gm  
Date of Analysis : Jan 2021

S.No	Test Parameters	Observed Values	Standard Values
1.	Appearance	Passes	Brownish yellow powder
2.	pH : 4.3	Passes	Brilliant yellow
3.	pH : 6.3	Passes	Pink
4.	pH : 9.4	Passes	Brown Orange
5.	pH : 12.0	Passes	Violet
6.	Absorptivity 1%/1cm at $\lambda$ max.556.0nm (0.1N NaOH)	395	> 350
7.	Absorptivity 1%/1cm at $\lambda$ max.595.0nm (0.1N NaOH)	332	> 320
8.	Loss on drying at 110°C	4.78%	< 5%

Chief Chemist