

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME: AMARANTH**

CHEMICAL FORMULA: C <sub>20</sub> H <sub>11</sub> N <sub>2</sub> Na <sub>3</sub> O <sub>10</sub> S <sub>3</sub>		DATE: 25.06.2020		
COLOUR INDEX NO: 16185, E 123		EINECS: 213-022-2		M.W 604.48
CAS REGN NUMBER: 915-67-3		LOT NO: 2020-232-06		
CHEMICAL AND PHYSICAL DATA	ANALYTICAL METHOD	UNITS	RESULT	LIMIT
PURE DYE CONTENT (ON DRY BASIS)	CQ/SP	%	86.60	85 MIN
APPEARANCE OF POWDER	CQ/AP		DARK BLACK COLOUR	
HUE SOLUTION 1% WATER	CQ/TS		BLUISH PINK LIQUID	BLUISH PINK LIQUID
LOSS ON DRYING AT 135° C & SODIUM CHLORIDE & SULPHATES % MAX	CQ/UM	%	10.80	< 15.0
WATER INSOLUBLE MATTERS	CQ/IN	%	0.17	0.2 MAX
SUBSIDIARY COLORING MATTER	CQ/CA	%	0.23	3.0 MAX
ORGANIC COMPOUNDS OTHER THAN COLOURING	CQ/PT	%	0.30	0.50
UNSULFONATED PRIMARY AROMATIC AMINES	CQ/AA	%	<0.01	0.01
ETHER EXTRACTABLE MATTER	CQ/EE	%	< 0.2	0.2 MAX
ARSENIC	CQ/AS	mg/kg	< 3.0	3.0 MAX
LEAD	CQ/PB	mg/kg	< 2.0	10.0 MAX
MERCURY	CQ/HG	mg/kg	< 1.0	1.0 MAX
CADMIUM	CQ/CD	mg/kg	< 1.0	1.0 MAX
HEAVY METALS (AS PB)	CQ/MP	mg/kg	< 40.0	40.0 MAX
MIXTURE OF	N/A			
PACKAGING	25 KG HDPE DRUMS WITH TWIN LINERS			
STORAGE	PRESERVE IN HUMIDITY FREE AND SEPARATE FORM ANY OTHER MATERIAL WITH SMELL			
SHELF LIFE/EXPIRY DATE	5 YEARS MFG DT. 06/2020		EXP.DT.: 05/2025	
GRADE	FOOD GRADE			
MANAGER-QC		LAB CHEMIST		