

CERTIFICATE OF ANALYSIS

PRODUCT NAME ALGINIC ACID
BATCH NO. 2013042010
QUANTITY 1000KGS
CONTRACT NO. JK 13-10

INVOICE DATE. MAY 1, 2013
MFG DATE: APRIL 3, 2013
EXP DATE APRIL 2, 2015

ITEM	STANDARD	RESULTS
APPEARANCE	WHITE TO PALE YELLOWISH-BROWN, CRYSTALLINE OR AMORPHOUS POWDER.	CONFIRMED
SOLUBILITY	VERY SLIGHTLY SOLUBLE OR PRACTICALLY INSOLUBLE IN ALCOLHAL, PRACTICALLY INSOLUBLE IN ORGANIC SOLVENTS; IT SWELLS IN WATER, BUT DOES NOT DISSOLVE OR DISSOLVES IN SOLUTIONS OF ALKALI HYDROXIDES	CONFIRMED
IDENTIFICATION	TESTS A, B, C: POSITIVE (FCC)	CONFIRMED
MICROBIAL TESTS	TOTAL GERMS: <200/GR SALMONELLA: NEGATIVE ESCHERICIA COLI: NEGATIVE (USP)	CONFIRMED
PH	2.0-3.4 (3% AQUEOUS SOLUTION) (FCC) 1.5-3.5 (USP)	2.59
Assay	91.0%-104.5% (FCC)	99.2%
LOSS ON DRYING	<15.0% (FCC USP)	11.4
SULPHATED ASH (Residue on Ignition)	<8.0% (FCC USP)	3.8
HEAVY METAL	<0.004% (USP)	<0.004%
ARSENIC	<0.0003% (FCC)	<0.0003%
LEAD	<5ppm (FCC) (USP 10ppm)	<5ppm
VISCOSITY (1% SOL'N) (Mpa.s)	<50	38
ACID VALUE	> 230 (USP)	278
MOLYSITE	<0.05%	<0.05%

CONCLUSION: THIS BATCH IS IN CONFORMING WITH THE STANDARD OF FCC / USP.

PERSON IN CHARGE: LIHUA PAN

TESTED BY: MEIFANG MEI