



Shinghua Advanced Material Group Co.,Ltd.

胜华新材料集团股份有限公司

## Certificate of Analysis

Product Name: Acetonitrile

Batch No.: ACN-23072001

Quantity: 18500kgs

Production Date: Jul. 20th. 2023

Expiration Date: Jul. 19th. 2024

Manufacturer's name: Shandong Kunda Biotechnology Co., Ltd.

Item	Unit	Specification	Result
Appearance	--	Colorless, limpid liquid	Colorless, limpid liquid
Specific gravity <sub>20/20°C</sub>	g/m <sup>3</sup>	0.782-0.785	0.782
Distillation range	°C	80.0-82.0	81.3-81.9
Acetonitrile	%	99.9 min	99.98
Water	mg/kg	300 max	40
Hydrocyanic Acid (As HCN)	mg/kg	10 max	1.6
Acidity as Acetic acid	mg/kg	50 max	1.5
Copper	mg/kg	0.50 max	0.01
Iron	mg/kg	0.50 max	0.04
Heavy Component (Propionitrile included)	mg/kg	500 max	148
Acrylonitrile	mg/kg	25 max	Not Detected
Acetone	mg/kg	25 max	Not Detected
Free Ammonia	mg/kg	6 max	< 1
Color(APHA Pt-Co)	-	10 max	< 10

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Conclusion: The product of this batch can match the specification by analysis.

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Authorized Signature