



东北制药集团股份有限公司  
NORTHEAST PHARMACEUTICAL GROUP CO., LTD

No.29 Shenxiliu Dong Road, Economic Technology Development District, Shenyang, .P.R China. Post code : 110869 FAX: 024-22724536 TEL:024-22721818

CERTIFICATE OF ANALYSIS  
**Aminobutyric Acid**

<b>BATCH NUMBER</b>	DY00612200148	<b>MANUFACTURE DATE</b>	Sep.8.2022
<b>BATCH SIZE</b>	500kg	<b>TEST DATE OF APPLICATION</b>	Sep.9.2022
<b>QUANTITY</b>	20Cartons	<b>RETEST DATE</b>	Sep.7.2025
<b>Analysis Items</b>		<b>Specifications</b>	<b>Analysis Results</b>
1.	Characteristics	White or almost white crystals or crystalline powder	White crystalline powder
2.	Identification	Positive Positive	Positive Positive
3.	Clarity of Solution	≤0.5# turbidity standard solution	< 0.5# turbidity standard solution
4.	Melting Point	198°C ~ 204°C	200.5°C
5.	Acidity or Alkalinity(pH)	6.5 ~ 7.5	7.4
6.	Assay	99.0% ~ 101.0%	99.5%
7.	Chloride	≤0.004%	< 0.004%
8.	Sulphates	≤0.005%	< 0.005%
9.	Calcium	No opalescence	Meets the Requirements
10.	Heavy Metals	≤0.001%	< 0.001%
11.	Arsenic	≤0.0001%	< 0.0001%
12.	Residue on Ignition	≤0.07%	0.03%
13.	Loss on Drying	≤0.5%	0.23%
14.	Total aerobic microbial count	≤10 <sup>3</sup> cfu/g	10cfu/g
15.	Yeasts and Moulds	≤10 <sup>2</sup> cfu/g	<10cfu/g
16.	Escherichia coli	Not detected	Not detected

We, Northeast Pharmaceutical Group Co., Ltd., certify that this batch of **Aminobutyric Acid** meets the requirements of **Inhouse Standards**.

Supervisor  2023.05.08

Final Batch Disposition (2)

Approved

By:

2023年5月8日



东北制药集团股份有限公司

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## CERTIFICATE OF ANALYSIS

### *Aminobutyric Acid*

<b>BATCH NUMBER</b>	DY00612200149	<b>MANUFACTURE DATE</b>	Sep.9.2022
<b>BATCH SIZE</b>	500kg	<b>TEST DATE OF APPLICATION</b>	Sep.9.2022
<b>QUANTITY</b>	20Cartons	<b>RETEST DATE</b>	Sep.8.2025
<b>Analysis Items</b>		<b>Specifications</b>	<b>Analysis Results</b>
1.	Characteristics	White or almost white crystals or crystalline powder	White crystalline powder
2.	Identification	Positive Positive	Positive Positive
3.	Clarity of Solution	≤0.5# turbidity standard solution	< 0.5# turbidity standard solution
4.	Melting Point	198°C ~ 204°C	200.5°C
5.	Acidity or Alkalinity(pH)	6.5 ~ 7.5	7.4
6.	Assay	99.0% ~ 101.0%	99.5%
7.	Chloride	≤0.004%	< 0.004%
8.	Sulphates	≤0.005%	< 0.005%
9.	Calcium	No opalescence	Meets the Requirements
10.	Heavy Metals	≤0.001%	< 0.001%
11.	Arsenic	≤0.0001%	< 0.0001%
12.	Residue on Ignition	≤0.07%	0.04%
13.	Loss on Drying	≤0.5%	0.18%
14.	Total aerobic microbial count	≤10 <sup>3</sup> cfu/g	10cfu/g
15.	Yeasts and Moulds	≤10 <sup>2</sup> cfu/g	<10cfu/g
16.	Escherichia coli	Not detected	Not detected

We, Northeast Pharmaceutical Group Co., Ltd., certify that this batch of **Aminobutyric Acid** meets the requirements of **Inhouse Standards**.

Supervisor   
Final Batch Disposition

**Approved**



**By:**



2023年6月6日