



**K** alchem International, Inc  
Compounding Chemicals You Can Trust

<b>PRODUCT:</b>	<b>PIMOBENDAN, EP</b>	<b>EXPIRATION DATE:</b>	<b>09/05/2023</b>
<b>FINISHED LOT NO:</b>	<b>20200906</b>	<b>MFG DATE:</b>	<b>09/06/2020</b>
<b>CAS#</b>	<b>74150-27-9</b>	<b>SPECIFICATIONS:</b>	<b>EP</b>
<b>MANUFACTURER:</b>	<b>TIANJIN KILO PHARMACEUTICAL</b>	<b>COUNTRY OF ORIGIN:</b>	<b>CHINA</b>

## Certificate of Analysis

TEST CRITERIA	SPECIFICATIONS	RESULTS
<b>APPEARANCE</b>	White to slightly yellowish powder, hygroscopic	White powder, hygroscopic
<b>SOLUBILITY</b>	Practically insoluble in water, freely soluble in dimethylformamide, slightly soluble in acetone and in methanol.	Conform
<b>IDENTIFICATION</b>	Infrared Absorption	Conforms
<b>*IDENTIFICATION (ID B) USP</b>		Conforms
<b>MELTING POINT</b>	~242°C	Conform
<b>ASSAY</b>	98.0%~101% (anhydrous substance)	99.4%
<b>*ASSAY (anhydrous basis) USP</b>	98.0%-102.0%	99.9%
<b>HPLC purity</b>	>99.80%	99.89%
<b>SULPHATED ASH</b>	NMT 0.1%	0.08%
<b>RESIDUAL SOLVENTS</b>	Ethanol <0.5%	0.13%
	Ethyl acetate	0.08%
<b>RELATED SUBSTANCES</b>	Impurities A <0.1%	Not detected
	Impurities B <0.1%	Not detected

	<b>Any other impurities &lt;0.1%</b>	<b>0.04%</b>
	<b>Total impurities &lt;0.2%</b>	<b>0.11%</b>
<b>Heavy Metals</b>	<b>NMT 10ppm</b>	<b>5ppm</b>
<b>Water</b>	<b>NMT 1.0%</b>	<b>0.5%</b>
<b>Conclusion: This product complies with EP9.0 standard.</b>		

DATE OF RELEASE: 10/12/20 ANALYSIS # ETX-201007-0083

APPROVED BY/ DATE: \_\_\_\_\_

Kalyn R Tabor, Quality Control