

## CERTIFICATE OF ANALYSIS

Product : **PIPES**  
(1,4-piperazinediethanesulfonic acid)  
Product number : P1505  
Batch number : 017898  
Date of analysis : 10-07-2023  
Date of expiry : 31-07-2028  
  
Packaging and storage : in a well closed container, at room temperature.

	SPECIFICATION	RESULT	UNITS	REMARKS
Appearance	white coarse powder	complies		
Identification	conform	complies		IR-spectrum
Appearance of solution	clear and colourless	complies		10% in 1 N NaOH, 20°C
Chlorides	≤ 0.025	< 0.025	%	
Sulphates	≤ 0.005	< 0.005	%	
Assay	≥ 99.0	99.2	%	dried substance

This certificate of analysis is conform the results of the manufacturer.

Conclusion: approved

Released by:

Date: 14-07-2023

drs. J. van der Eem, pharmacist  
Department of Quality Control Duchefa B.V.



The buyer is responsible to test each batch to ensure the product is suitable for their specific purpose.

Duchefa Biochemie B.V.