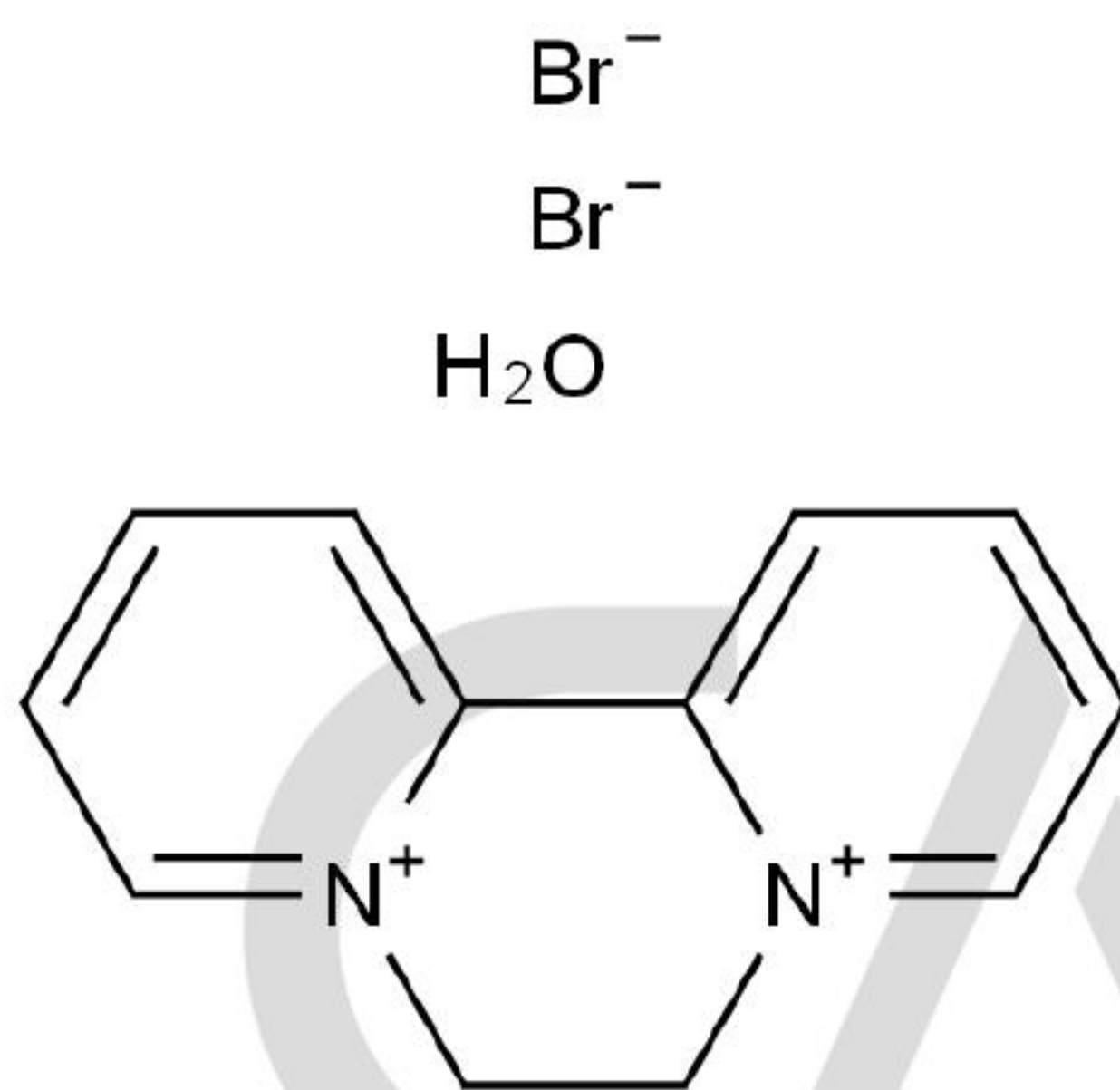


Certificate of Analysis

Reference Material & Standard

Product Name:	Diquat Dibromide Monohydrate	Catalogue Number:	CCPD100345
Synonyms:	N/A	Lot Number:	0827-RF-0037
CAS Number:	6385-62-2	Expiry Date:	Sep 02, 2027
Molecular Formula:	C ₁₂ H ₁₂ N ₂ 2*Br H ₂ O	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	184.24 2*79.90 18.02	Warning:	  

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Pale Green Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.746%
Loss On Drying	TGA	5.0042%
Loss On Drying(Free Water)		0.0161%
Assay		99.7%
Uncertainty		±2.0%

Comment:

- The content of crystal water is 4.9881%.
- The calculation of the 100% method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Loss On Drying(Free Water)}) * \text{Purity HPLC (\%)} / 100\%$$
 Loss On Drying(Free Water) is considered as absolute effect, HPLC purity is considered as relative effect.
- The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Sep 03, 2024

Date: Sep 03, 2024

Date: Sep 03, 2024

