

Certificate of Analysis

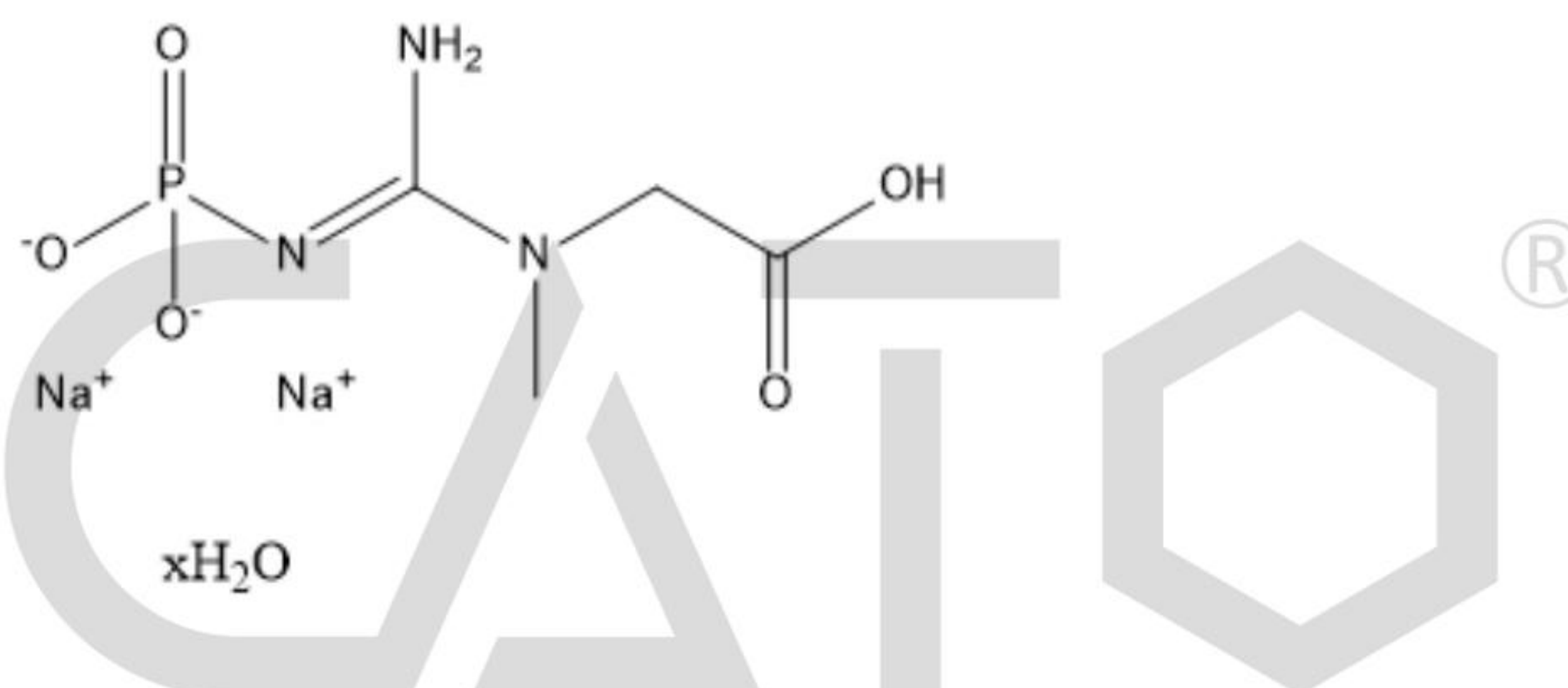
Reference Material & Standard

Product Name:	Disodium Phosphocreatine Hydrate	Catalogue Number:	CCHM700222
Synonyms:	N/A	Lot Number:	1209-RD-0026
CAS Number:	922-32-7	Expiry Date:	Dec 12, 2026
Molecular Formula:	$C_4H_8N_3O_5P \cdot 2Na \cdot xH_2O$	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	209.10 $2 \times 22.99 \times 18.02$		

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Powder
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	100.000%
Loss on Drying	TGA	23.7703%
Assay		76.2%
Uncertainty		±2.0%

Comment:

- The content of 76.2% is dry matter.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Loss on Drying}) \times \text{Purity ELSD (\%)} / 100\%$$
 Loss on Drying is considered as absolute effect, ELSD 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:

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Date: Dec 13, 2022

Date: Dec 15, 2022

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