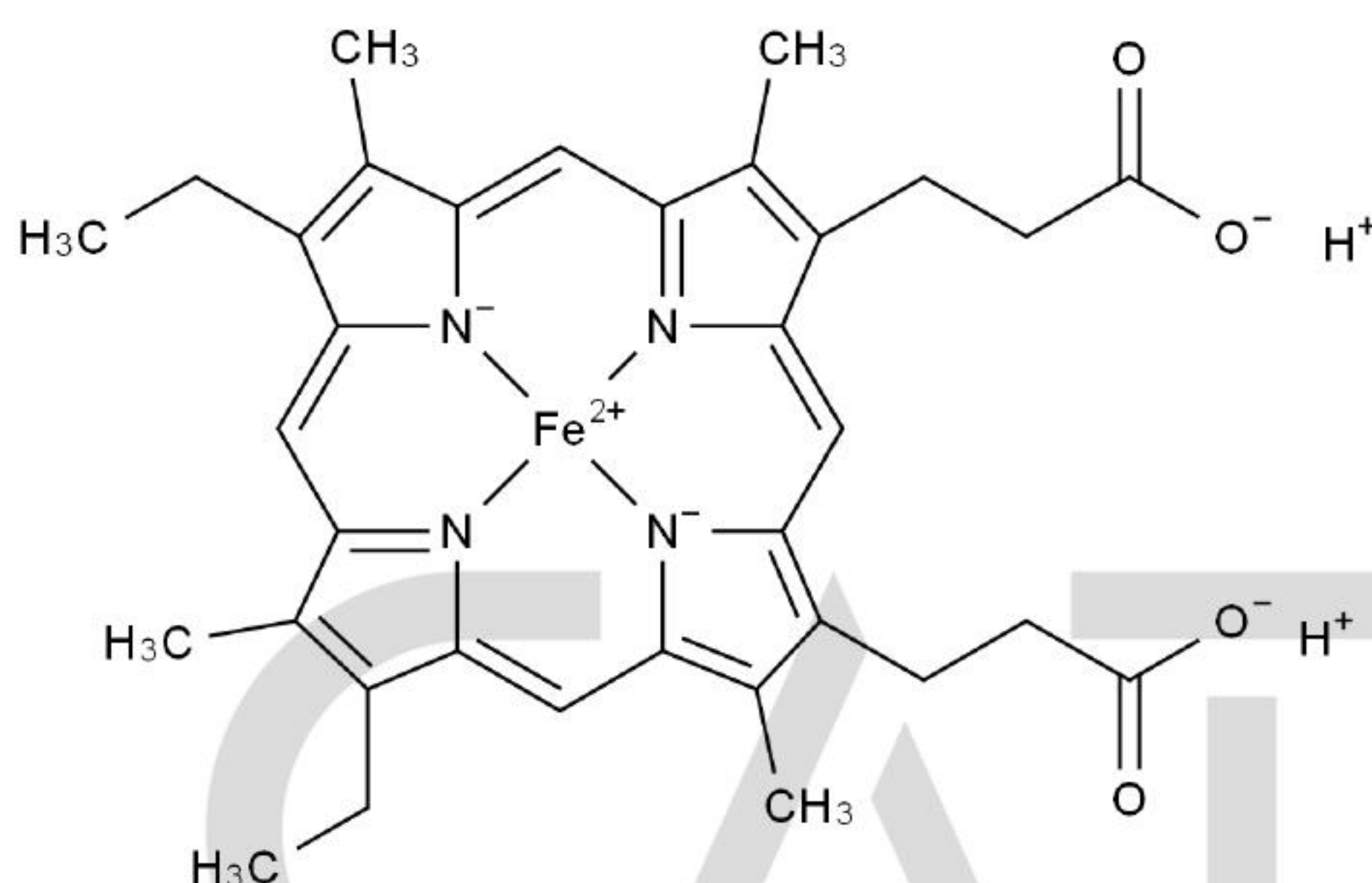


Certificate of Analysis

Reference Material & Standard

Product Name:	Iron porphyrins	Catalogue Number:	CCHM705631
Synonyms:	N/A	Lot Number:	1025-RF-0012
CAS Number:	18040-04-5	Expiry Date:	Oct 31, 2028
Molecular Formula:	C ₃₄ H ₃₄ FeN ₄ O ₄ 2H	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	620.52		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Black Solid
Identification	LCMS	Confirmed
Purity	ELSD	99.8661%
Residue on Ignition	TGA	2.8105%
Loss On Drying	TGA	0.5683%
Assay		96.5%
Uncertainty		±2.0%

Comment:

- The calculation of the 100% method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Residue on Ignition} - \text{Loss On Drying}) * \text{Purity ELSD (\%)} / 100\%$$
Residue on Ignition and Loss On Drying are 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:

Prepared by:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Nov 01, 2024

Date: Nov 01, 2024

Date: Nov 01, 2024

