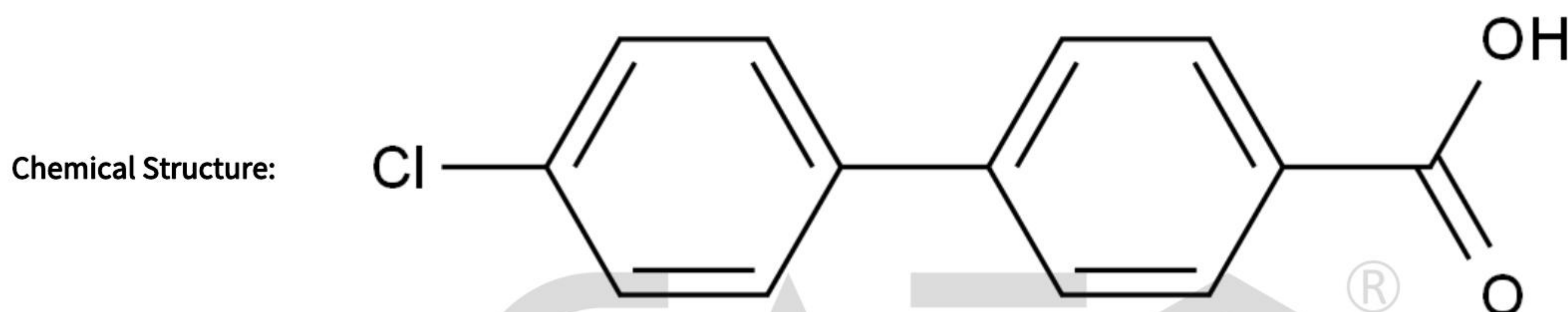


Certificate of Analysis

Reference Material

Product Name:	4'-Chloro-[1,1'-biphenyl]-4-carboxylic acid	Catalogue Number:	CS359976
Chemical Name:	N/A	Lot Number:	1205-RD-0069
CAS Number:	5748-41-4	Expiry Date:	Dec 07, 2026
Molecular Formula:	C ₁₃ H ₉ ClO ₂	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	232.66		



Test Items	Method	Results
Appearance	Visual inspection	White Powder
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	97.184%
Loss On Drying	TGA	0.1727%
Assay		97.0%
Uncertainty		±2.0%

Comment:

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

$$\text{Assay (\%)} = (100\% - \text{Loss On Drying}) * \text{Purity HPLC (\%)} / 100\%$$

Loss On Drying is considered as absolute effect, HPLC purity is considered as relative effect.

2. 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:

Delia

Reviewed by:

Xenia

Aporoved by General manager:

David

Date: Dec 08, 2022

Date: Dec 08, 2022

Date: Dec 08, 2022

