

Certificate of Analysis

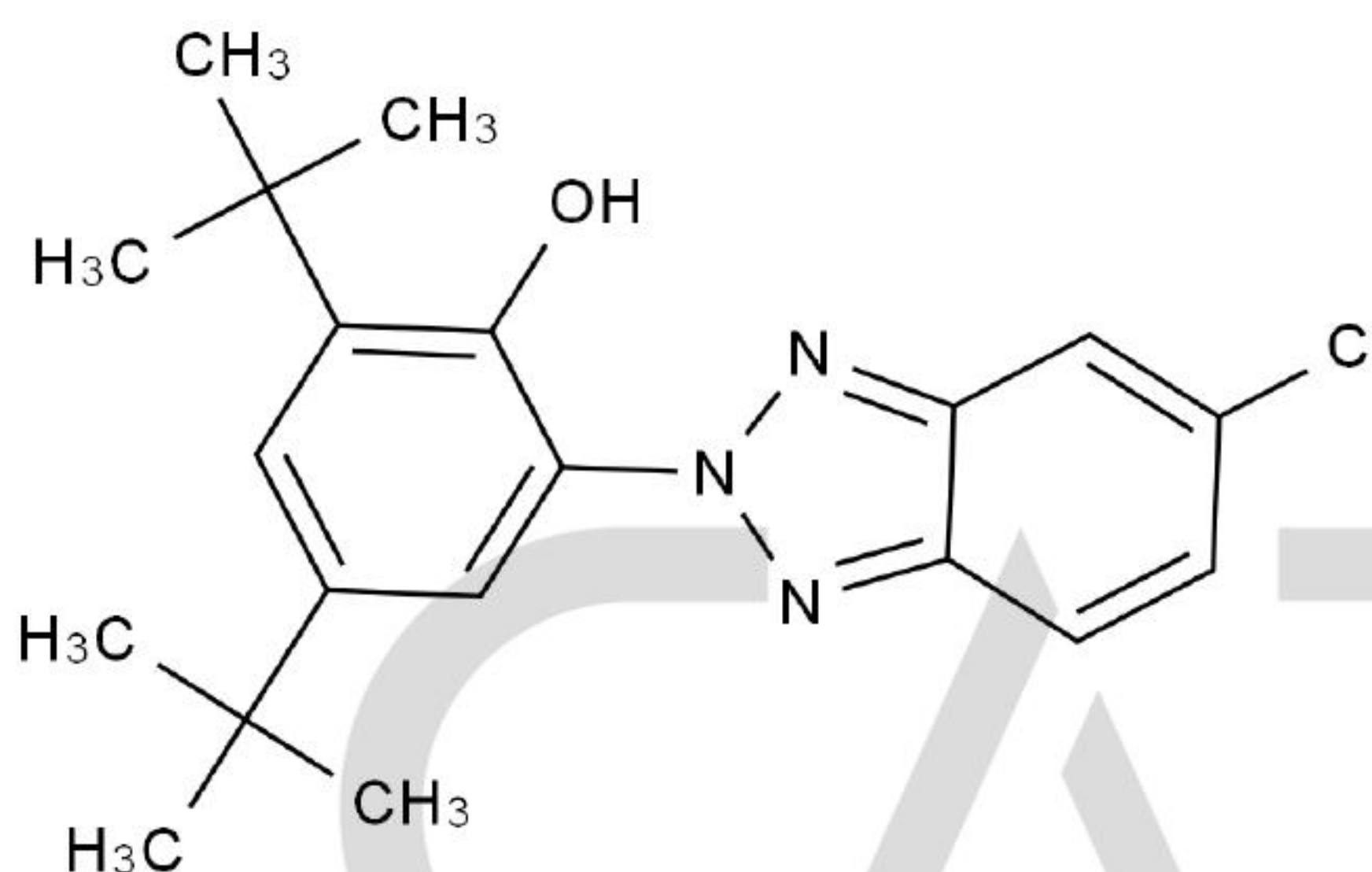
Reference Material & Standard

Product Name:	2-(2'-Hydroxy-3',5'-Di-Tert-Butylphenyl)-5-Chlorobenzotriazole	Catalogue Number:	CCHM700483
Synonyms:	N/A	Lot Number:	1013-RG-0123
CAS Number:	3864-99-1	Expiry Date:	Oct 12, 2031
Molecular Formula:	C ₂₀ H ₂₄ ClN ₃ O	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	357.88		

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	100.000%
Loss On Drying	TGA	0.1844%
Assay		99.8%
Uncertainty		±0.2%

Comment:

- The calculation of the mass balance 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.
- 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:

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Reviewed by:

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Approved by General Manager:

David

Date: Oct 13, 2025

Date: Oct 14, 2025

Date: Oct 14, 2025



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