

Certificate of Analysis

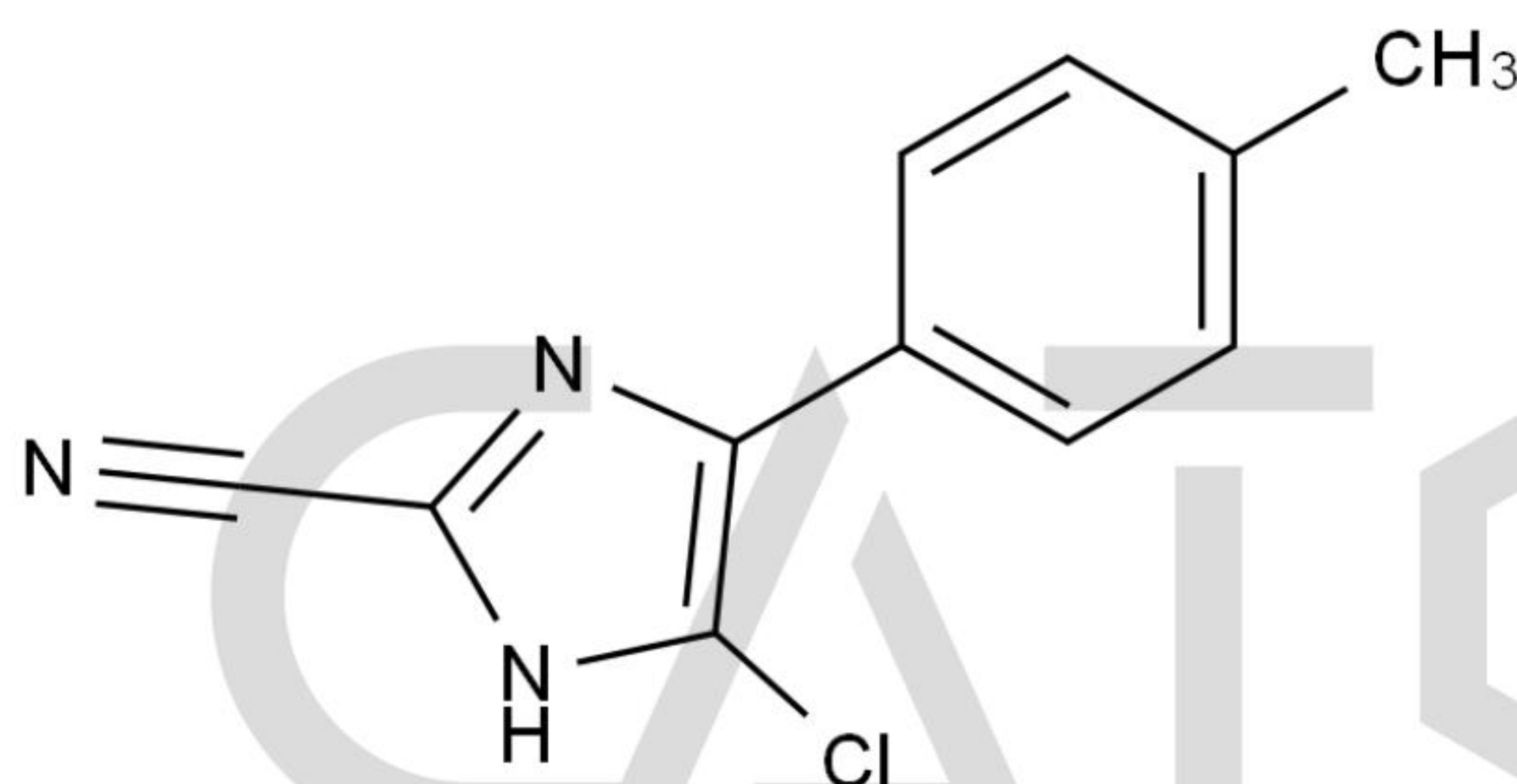
Reference Material & Standard

Product Name:	4-Chloro-5-(p-tolyl)-1H-imidazole-2-carbonitrile	Catalogue Number:	CCHM703576
Synonyms:	N/A	Lot Number:	0414-RG-0048
CAS Number:	120118-14-1	Expiry Date:	Apr 17, 2029
Molecular Formula:	C ₁₁ H ₈ ClN ₃	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	217.65	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.253%
Loss on Drying	TGA	6.360%
Assay		92.9%
Uncertainty		±0.7%

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:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Apr 18, 2025

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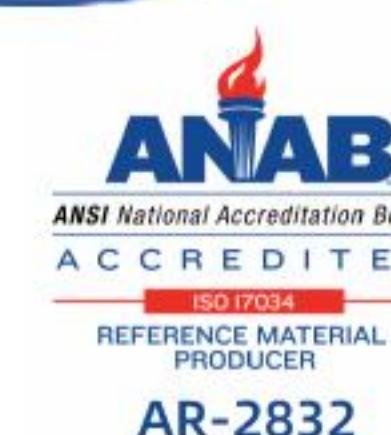
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