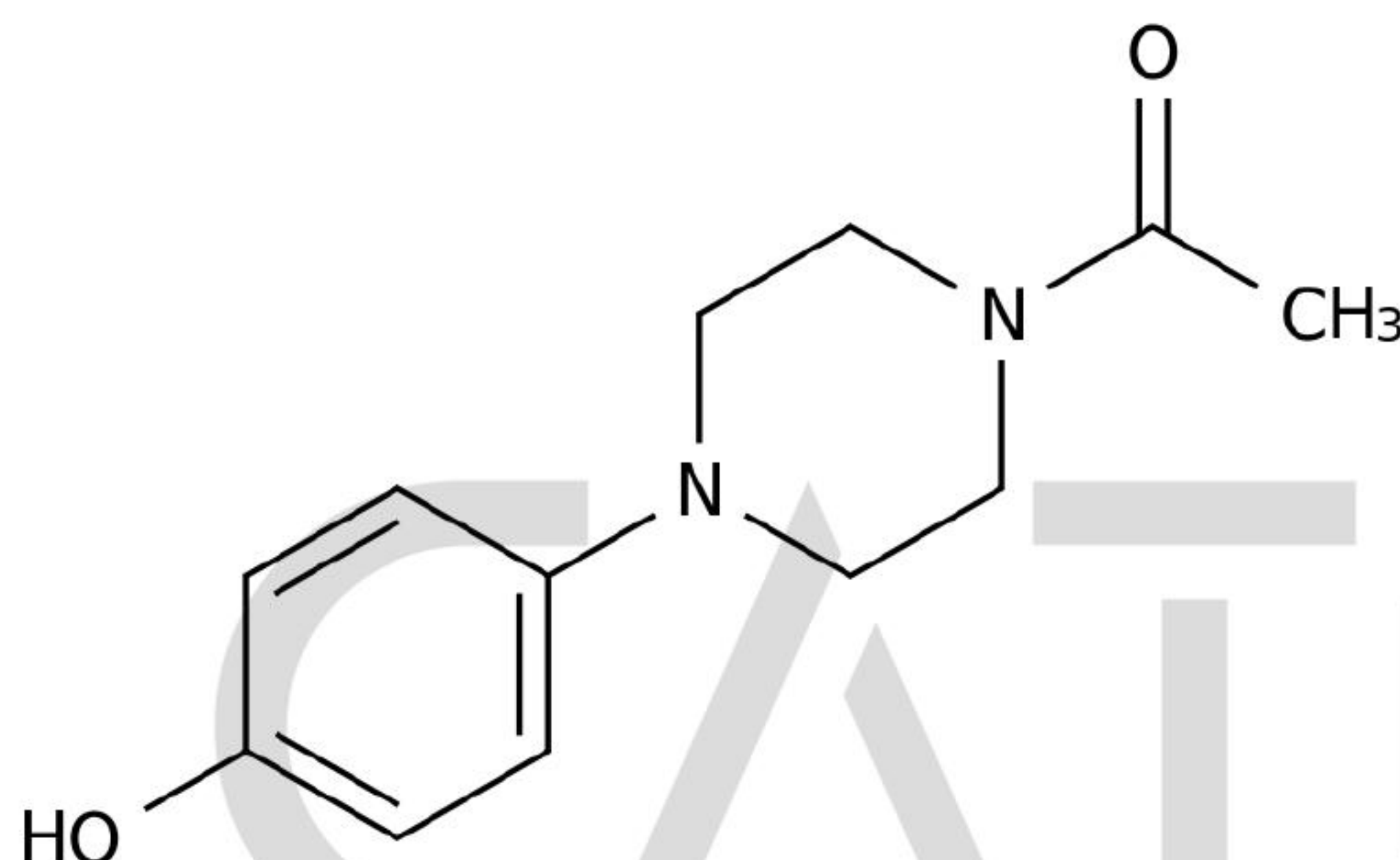


Certificate of Analysis

Reference Material & Standard

Product Name:	Ketoconazole Impurity 17	Catalogue Number:	C4X-147217
Synonyms:	1-Acetyl-4-(4-hydroxyphenyl)piperazine	Lot Number:	1205-RE-0035
CAS Number:	67914-60-7	Expiry Date:	Dec 07, 2026
Molecular Formula:	C ₁₂ H ₁₆ N ₂ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	220.27	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.752%
Loss On Drying	TGA	0.0271%
Assay		99.7%

Comment:

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

Assay (%) = (100% - Loss On Drying) * Purity HPLC (%) / 100%

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

Signature:

Prepared by:

Nice

Reviewed by:

Koi

Aproved by General Manager:

David

Date: Dec 08, 2023

Date: Dec 08, 2023

Date: Dec 08, 2023

