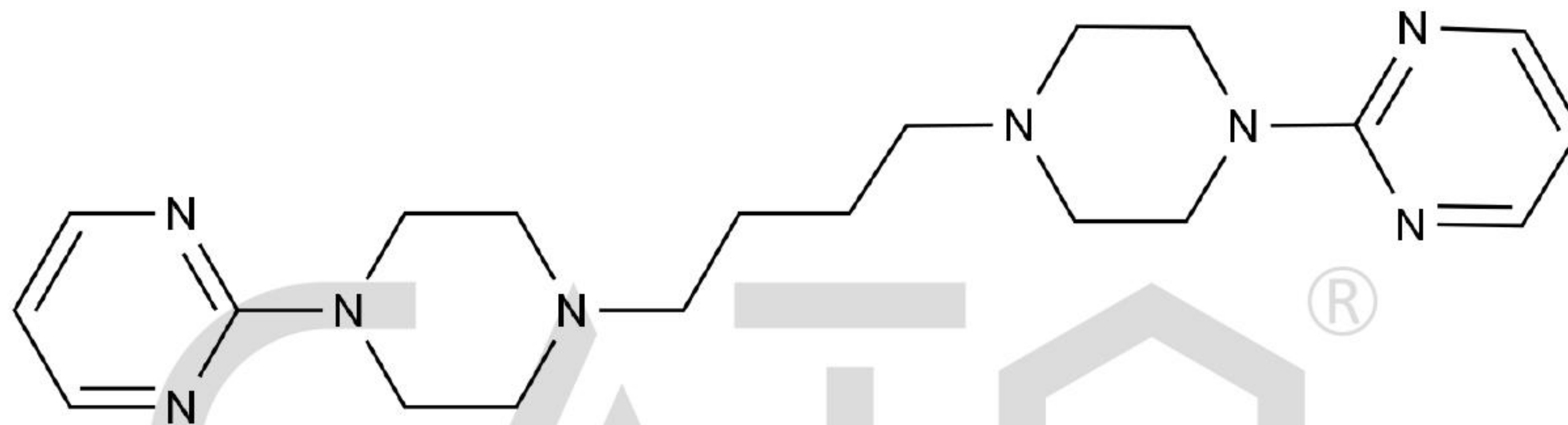


Certificate of Analysis

Reference Material & Standard

Product Name:	Buspirone EP Impurity C	Catalogue Number:	C4X-12583
Synonyms:	1,4-Bis[4-(pyrimidin-2-yl)piperazin-1-yl]butane	Lot Number:	0210-RH-0056
CAS Number:	257877-45-5	Expiry Date:	Apr 06, 2030
Molecular Formula:	C ₂₀ H ₃₀ N ₈	Storage:	2°C ~ 8°C Sealed
Molecular Weight:	382.51	Shipping Condition:	Shipping at Room Temperature
Solubility:	Soluble in DMSO and Chloroform		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Yellow Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	99.403%
Residue on Ignition	TGA	0.4122%
Loss On Drying	TGA	2.1245%
Assay	qNMR	96.1%
Assay	Mass Balance	96.9%

Comment:

- The retest date of this product is Apr 06, 2029.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Residue on Ignition} - \text{Loss On Drying}) * \text{Purity HPLC (\%)} / 100\%$$
Residue on Ignition and Loss On Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Alice

Approved by General Manager:

David

Date: Apr 07, 2026

Date: Apr 07, 2026

Date: Apr 07, 2026



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