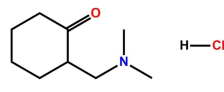


## CERTIFICATE OF ANALYSIS

Date: 19-06-2026

<b>Product Name</b>	<b>Tramadol EP Impurity E (HCl salt)</b>		
<b>Chemical Name</b>	(2RS)-2-[(dimethylamino)methyl]cyclohexan-1-one hydrochloride ; 2-[(Dimethylamino)methyl]cyclohexanone hydrochloride (as per USP)		
<b>Structure</b>			
<b>Batch No.</b>	-	<b>CAS No.</b>	42036-65-7 ; 15409-60-6 (free base) ; 854434-28-9 (HBr salt) ; 1071639-40-1 (hydrate)
<b>Analysis Date</b>	-	<b>Retest Date</b>	5
<b>Mol. Formula</b>	C <sub>9</sub> H <sub>17</sub> NO : HCl	<b>Molecular Wt.</b>	155.2 : 36.5
<b>Long term Storage Condition</b>		Store at 2-8 °C in well closed container	
<b>Handling and Transit Condition</b>		25-30 °C in well closed container	

Test	Result
Appearance	-
Solubility	-
<sup>1</sup> H-NMR	Conforms to structure
MASS	Conforms to structure
Chromatographic Purity	>90%
<p><b>Note: This material should be used for research purpose and not for human or animal consumption. Any patent applicable for this product in any country is not applicable for this analytical standard/research chemical.</b></p>	

	Prepared By	Checked By	Approved By
<b>Signature</b>			
<b>Date</b>			

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