

# Specification

## Technical Data Sheet

<b>Product Name</b>	Doxycycline hydrochloride
<b>Product No</b>	19948073
<b>CAS Number</b>	10592-13-9
<b>Storage Temperature</b>	2 to 8 °C
<b>Molecular Weight</b>	480.90
	<b>Specification</b>
<b>Appearance</b>	Yellow crystalline powder
<b>Heavy metals</b>	≤ 50ppm
<b>Identification</b>	Infrared Absorption
<b>pH</b>	2.0 - 3.0
<b>Water</b>	1.40%-2.80%
<b>2-acety-2-decarbamoylexycycline</b>	≤ 0.5%

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<b>4-epi-6-epidoxycycline</b>	$\leq 0.5\%$
<b>4-epidoxycycline</b>	$\leq 0.5\%$
<b>Assay</b>	95.0% ~ 102.0%
<b>Crystallinity</b>	Meets the requirement
<b>Ethanol</b>	4.3% - 6.0%
<b>Metacycline</b>	$\leq 2.0\%$
<b>oxytetracycline</b>	$\leq 0.5\%$
<b>Sulphated Ash</b>	$\leq 0.4\%$
<b>6-epidoxycycline</b>	$\leq 2.0\%$
<b>Any Unspecified Impurity</b>	$\leq 0.1\%$
<b>Conclusion:</b>	USP35

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