

Specification

Technical Data Sheet

Product Name	L-(+)-Amethopterin hydrate (Methotrexate)
---------------------	---

Product No	30186373
-------------------	----------

CAS Number	59-05-2
-------------------	---------

Storage Temperature	-15 to -20 °C
----------------------------	---------------

Molecular Weight	454.44
-------------------------	--------

Specification

Appearance	Yellow or orange crystalline, hygroscopic powder
-------------------	--

Acetone	≤ 1000 ppm
----------------	------------

Bacterial endotoxin	≤ 0.1 EU/mg
----------------------------	-------------

Heavy metals	≤ 20ppm
---------------------	---------

Impurity B	≤ 0.3%
-------------------	--------

Impurity C	≤ 0.5%
-------------------	--------

Water	≤ 13.0%
--------------	---------

Specification

Assay	98 - 102%
Enantiomeric Purity	≤ 3.0%
Ethanol	≤ 2000 ppm
Ethyl Ether	≤ 500 ppm
Solubility	Practically insoluble in water, in ethanol (96%) and in methylene chloride. It dissolves in dilute mineral acids and in dilute solutions of alkali hydroxides and carbonates
Sulphated Ash	≤ 0.1%
Identification (IR)	The IR spectrum of sample exhibits maxima only at the same wavelength as that of a similar preparation of methotrexate CRS
Impurity E	≤ 0.3%
Impurity H	≤ 0.2%
Impurity I	≤ 0.2%
