



## Specification

### Novobiocin Sodium Salt

**CAS Number:** 1476-53-5  
**Molecular Formula:** C<sub>31</sub>H<sub>35</sub>N<sub>2</sub>NaO<sub>11</sub>  
**Molecular Weight:** 634.61  
**Storage:** 2-8°C

Test	Specification
Appearance:	White to yellow powder
Description - USP:	Meets Test
Novobiocin (Dried Basis)-USP:	≥ 850 ug/mg
Identification - USP:	Positive
Specific Rotation Dried Basis - USP:	-58 to -50°
Identification A - USP:	Positive
Identification B - USP:	Positive
pH(USP):	6.5 - 8.5
Loss on Drying - USP:	≤ 6.0 %
Residue on Ignition - USP:	10.5 - 12.0 %
Crystallinity - USP:	Meets Test
Acetone - USP:	≤ 5000 ppm
Isooctane - USP:	≤ 5000 ppm
Assay Use Value:	≥ 845 ug/mg
Impurities Total HPLC Normal:	≤ 10.0 %
Impurities Unspecified :	≤ 0.2 %
Novobiocin-2,3-Carbonate:	≤ 0.6 %
A-Ring Amide:	≤ 0.3 %
Decarbamyl Novobiocin :	≤ 5.0 %
Isonovobiocin:	≤ 3.0 %
A-Ring Hydroxy:	≤ 1.0 %
Carbamyl Novobiocin :	≤ 3.0 %
DES-2-Isobutenyl:	≤ 0.5 %
DES-A-Ring Alpha-Keto-Carboxylic Acid:	≤ 0.5 %
O-Desmethylnovobiocin:	≤ 0.3 %
O-Desmethyl decarbamyl novobiocin:	≤ 0.3 %



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A-Ring Carbamyl:	≤ 0.5 %
8- Desmethyl novobiocin :	≤ 0.2 %
Carbamyl Novobiocin + Decarbamyl Novobiocin + Isonovobiocin:	≤ 11.0 %
Appearance:	White to yellow powder

Approved:

Date: May 6, 2020

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