# **Dextran Products Standard Operating Procedures**

S.O.P.# QC3411-03

Supersedes: SOP #QC3411-02

Title: Sodium Dextran Sulphate MW 8,000 (DS8) Specifications

Effective Date: APR 2 8 2021

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## **FINISHED PRODUCT SPECIFICATIONS**

**TEST** 

**SPECIFICATION** 

Identification

To Pass Test

Appearance

Off white to light yellow powder

Loss on Drying:

NMT 10.0%

Free Inorganic Sulphate

NMT 0.2%

Residue on Ignition

35% - 50%

Total Sulphur Content

17.0% - 20.0%

Glucose Content

35% - 48%

Specific Viscosity (In 1.0M NaCl at 25°C)

0.018 - 0.032

pH (1% solution)

5.0 to 7.5

Specific Rotation [α]<sub>D</sub><sup>20</sup>

+75° to +105°

Insoluble Iron

NMT 2.0%

Residual Pyridine

NMT 2.0%

Clarity (20% solution)

Absorbance at 360 nm

NMT 0.9 OD unit

Black Speck/100 ml

NMT 10

Chloride Content

NMT 1000 ppm

Written By:

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Title: Analytical Chemist

Date: April 27, 2021

Revised By:

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Title: QC Manager

Date: April 27, 2021

Approved By:

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Title QA Manager

Date: April 27, 2021

Dextran Products, Scarborough, Ontario, M1L 2H5, Canada

# **Dextran Products Standard Operating Procedures**

S.O.P.# QC3417-03

Supersedes: SOP #QC3417-02

Title: Sodium Dextran Sulphate MW 40,000 (DS40) Specifications

Effective Date: APR 2 8 2021

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### **FINISHED PRODUCT SPECIFICATIONS**

<u>TEST</u> <u>SPECIFICATION</u>

Identification To Pass Test

Appearance Off white to light yellow powder

Loss on Drying: NMT 10.0%

Free Inorganic Sulphate NMT 0.2%

Residue on Ignition 35% - 50%

Total Sulphur Content 17.0% - 20.0%

Glucose Content 35% - 48%

Specific Viscosity 0.05 - 0.13

(In 1.0M NaCl at 25°C)

pH (1% solution) 5.0 to 7.5

Specific Rotation  $[\alpha]_D^{20}$  +75° to +105°

Insoluble Iron NMT 2.0%

Residual Pyridine NMT 2.0%

Clarity (20% solution)

Absorbance at 360 nm NMT 0.9 OD unit

Black Speck/100 ml NMT 10

Chloride Content NMT 1000 ppm

Written By: Title: Analytical Chemist Date: April 27, 2021

Revised By: Title: QC Manager Date: April 27, 2021

Approved By: Ctu Title QA Manager Date: April 27, 2021

Dextran Products, Scarborough, Ontario, M1L 2H5, Canada

**Dextran Products Standard Operating Procedures** 

S.O.P.# QC3419-03

Supersedes: SOP #QC3419-02

Title: Sodium Dextran Sulphate Million MW 1,000,000 (DSM) Specifications (Made from

Dextran Powder MW 500,000)

Effective Date: APR 2 8 2021

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## FINISHED PRODUC'T SPECIFICATIONS

<u>TEST</u> <u>SPECIFICATION</u>

Identification To Pass Test

Appearance Off white to light yellow powder

Loss on Drying: NMT 10.0%

Free Inorganic Sulphate NMT 0.2%

Residue on Ignition 40% - 50%

Total Sulphur Content 17.0% - 20.0%

Glucose Content 35% - 48%

Specific Viscosity 0.10 - 0.70

(In 1.0M NaCl at 25°C)

pH (1% solution) 5.0 to 7.5

Specific Rotation  $[\alpha]_D^{20}$  +75° to +105°

Insoluble Iron NMT 2.0%

Residual Pyridine NMT 2.0%

Clarity (20% solution)

Absorbance at 360 nm NMT 0.9 OD unit

Black Speck/100 ml NMT 10

Chloride Content NMT 1000 ppm

Written By: Title: Analytical Chemist Date: April 27, 2021

Revised By: Title: QC Manager Date: April 27, 2021

Approved By: Title: QA Manager Date: April 27, 2021

Dextran Products, Scarborough, Ontario, M1L 2H5, Canada