

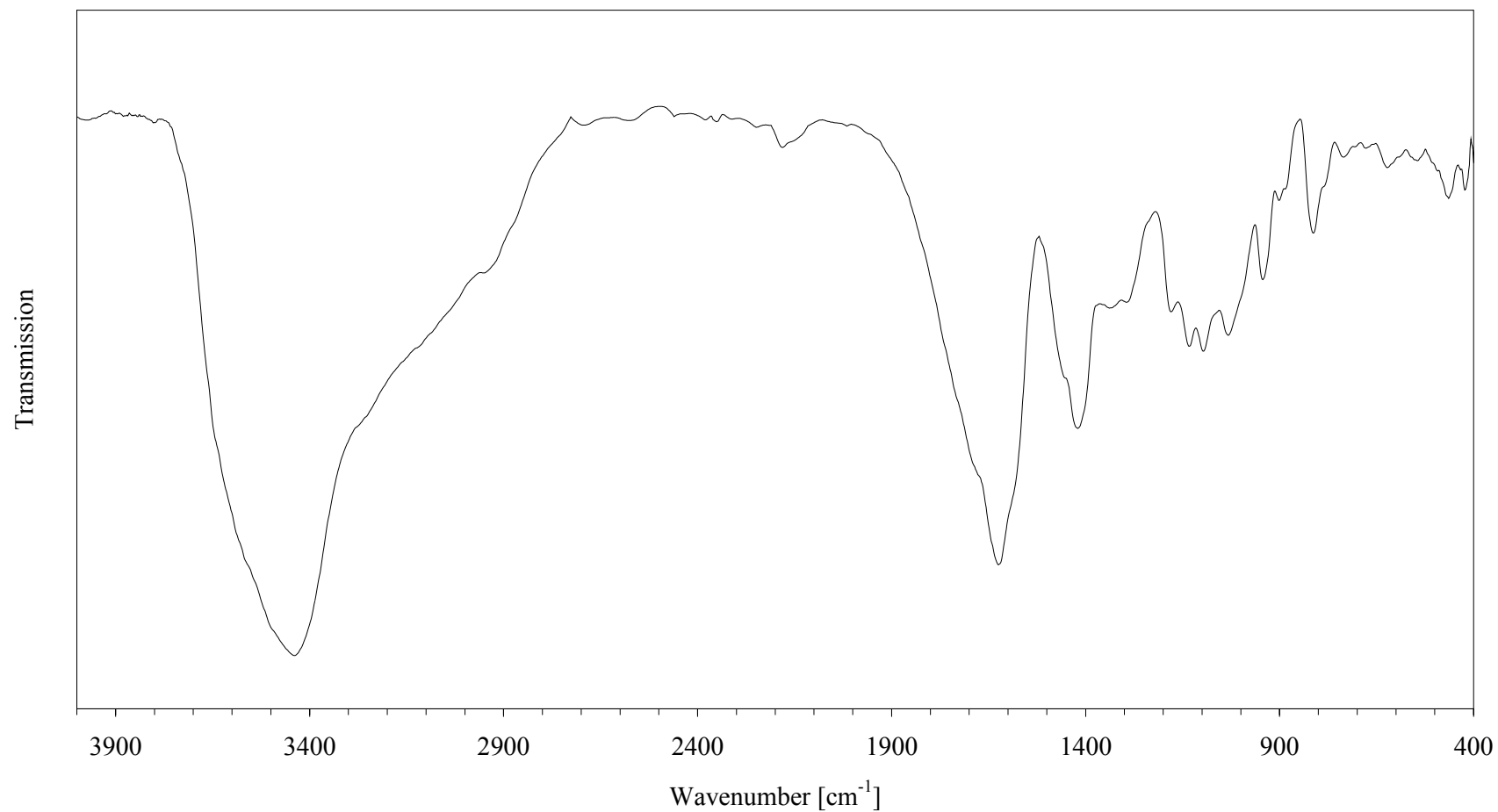
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FTIR Spectra

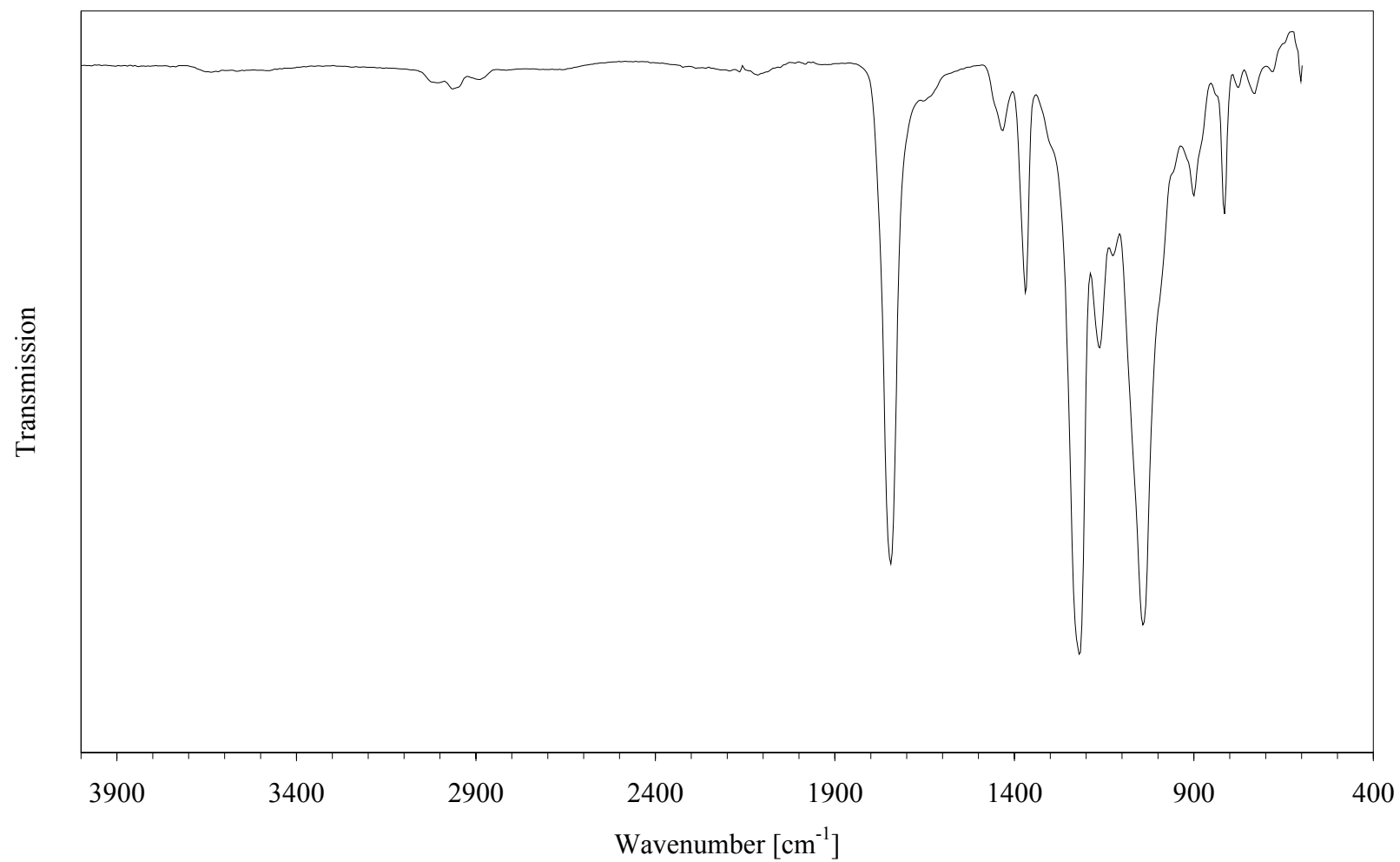


Alginate

FTIR

KBr

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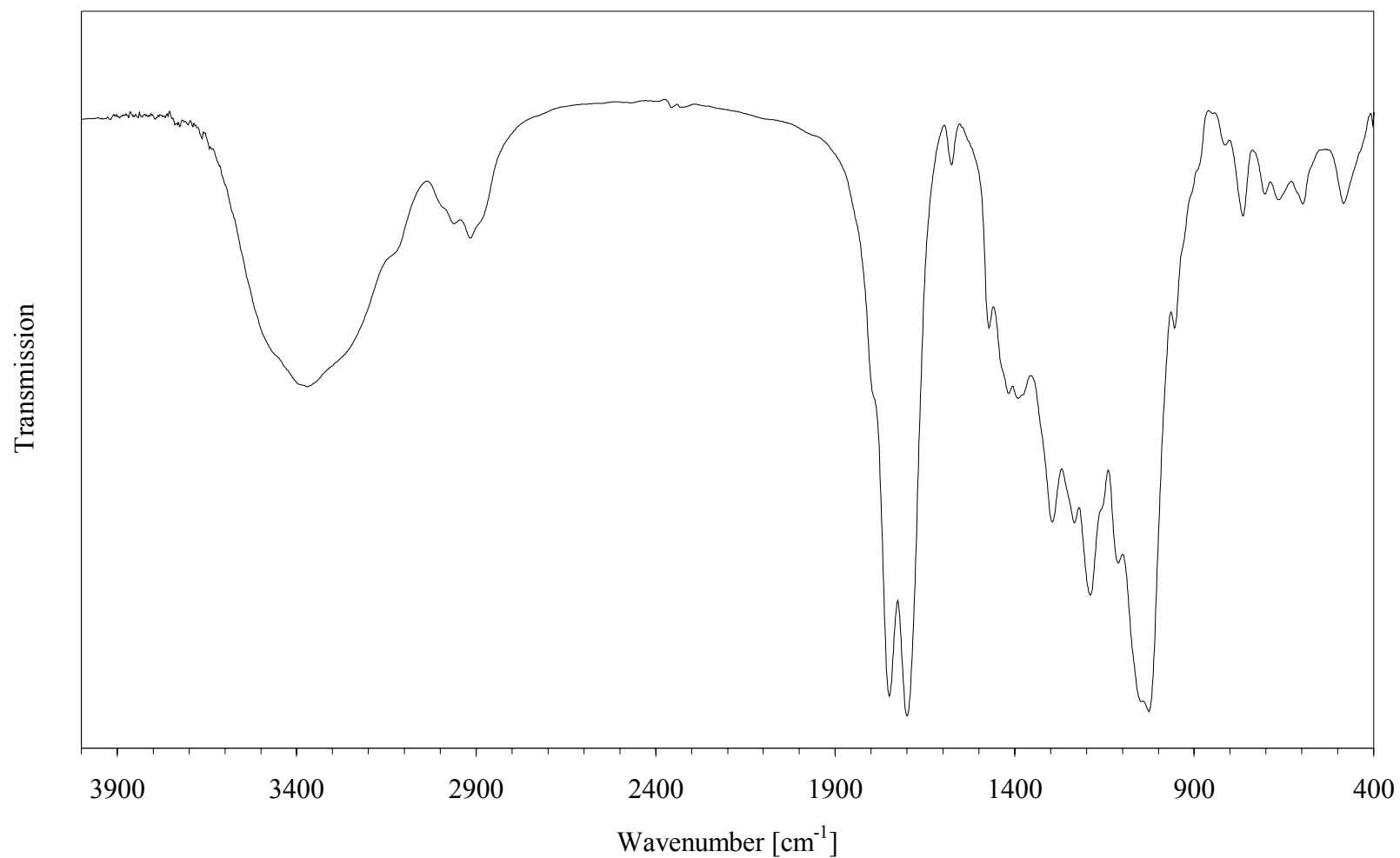
Cellulose acetate dichloroacetate

DS_{Acetate} 2.46

FTIR

KBr

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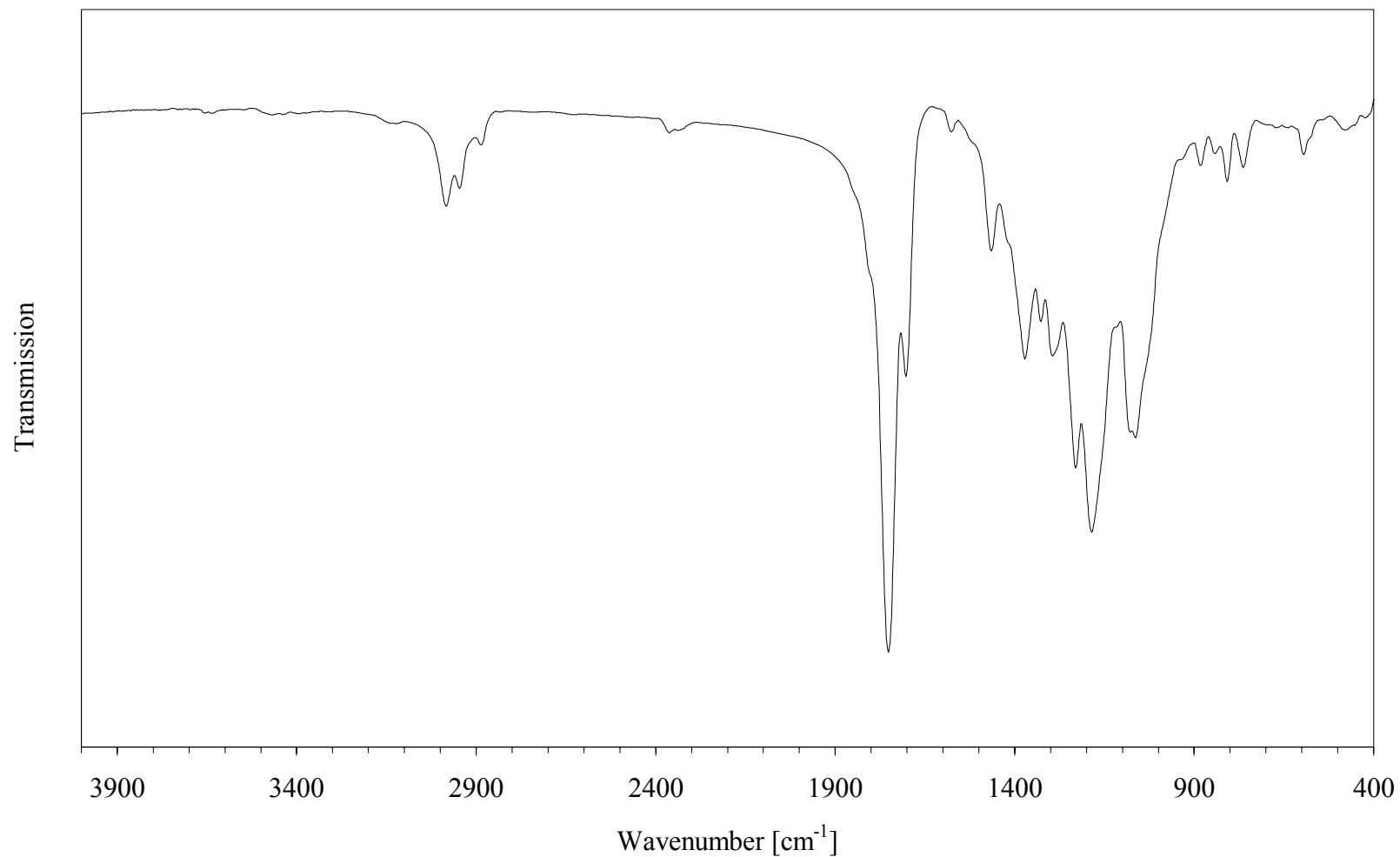
Cellulose furoate pyroglutamate

DS_{Furoate} 0.26 DS_{Pyroglutamate} 0.25

FTIR

KBr

Back ↑



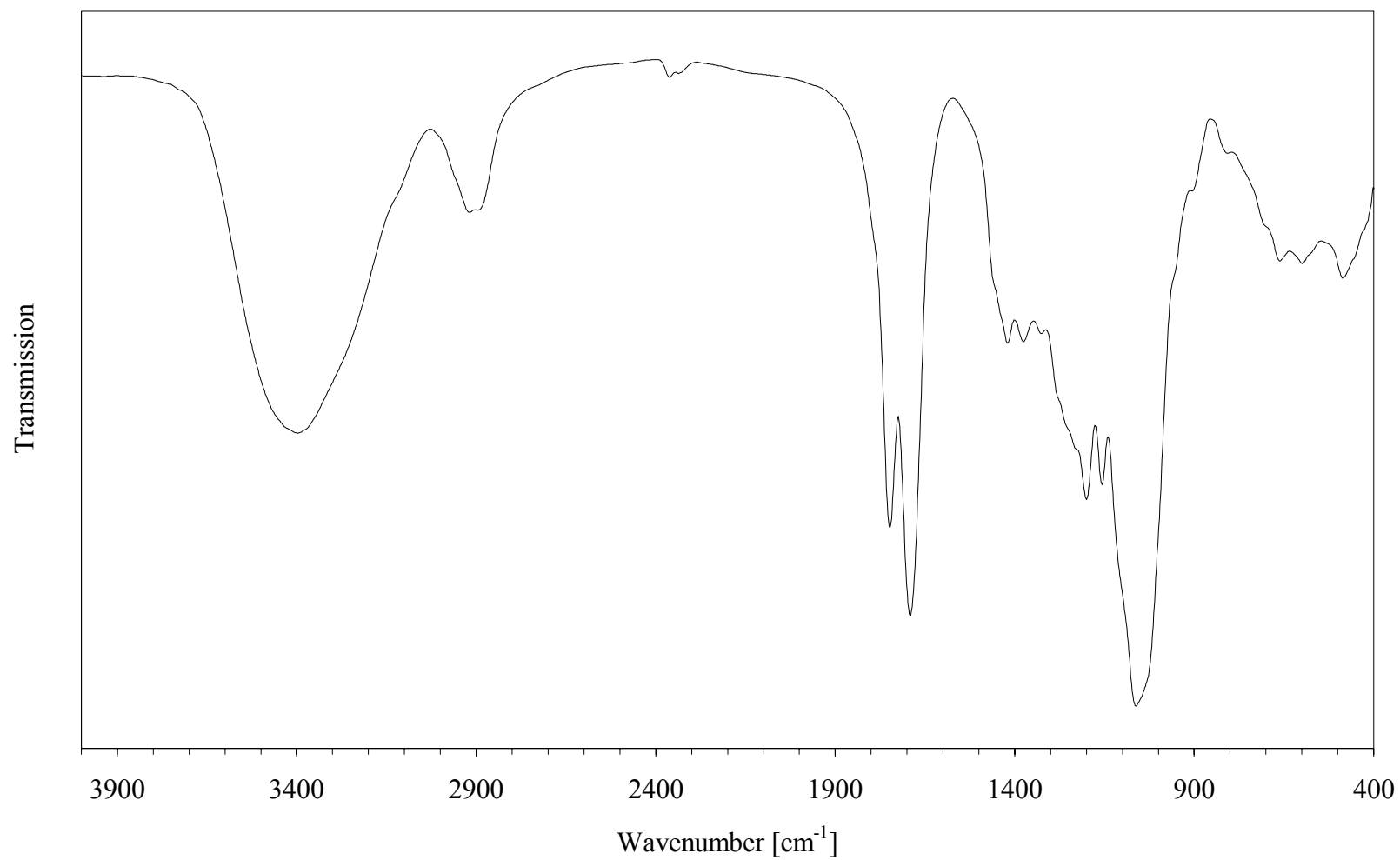
Cellulose furoate pyroglutamate peracetate

DS_{Furoate} 0.26 DS_{Pyroglutamate} 0.25

FTIR

KBr

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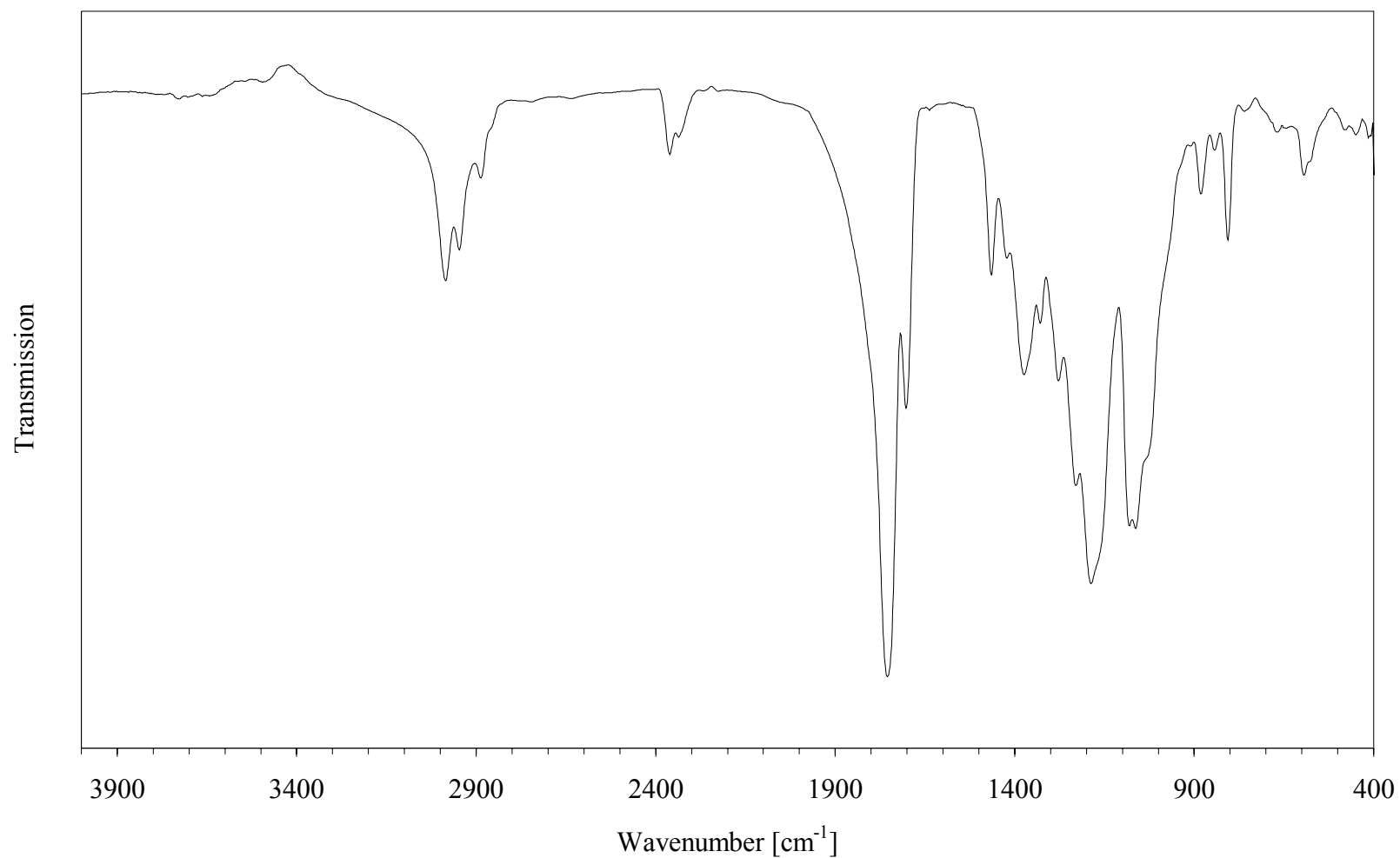
Cellulose pyroglutamate

DS 0.67

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FTIR

KBr



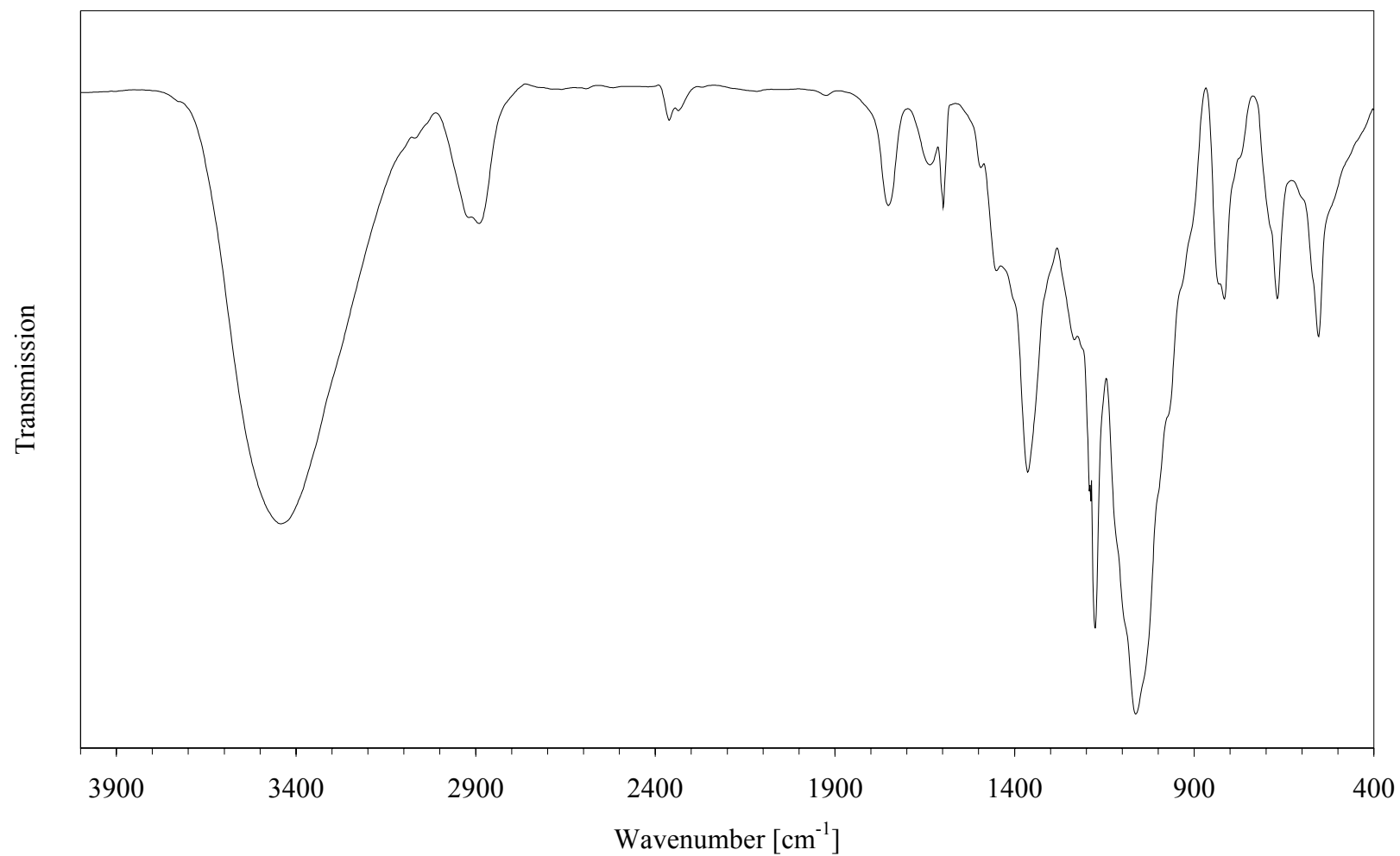
Cellulose pyroglutamate peracetate

DS_{Pyroglutamate} 0.67

FTIR

KBr

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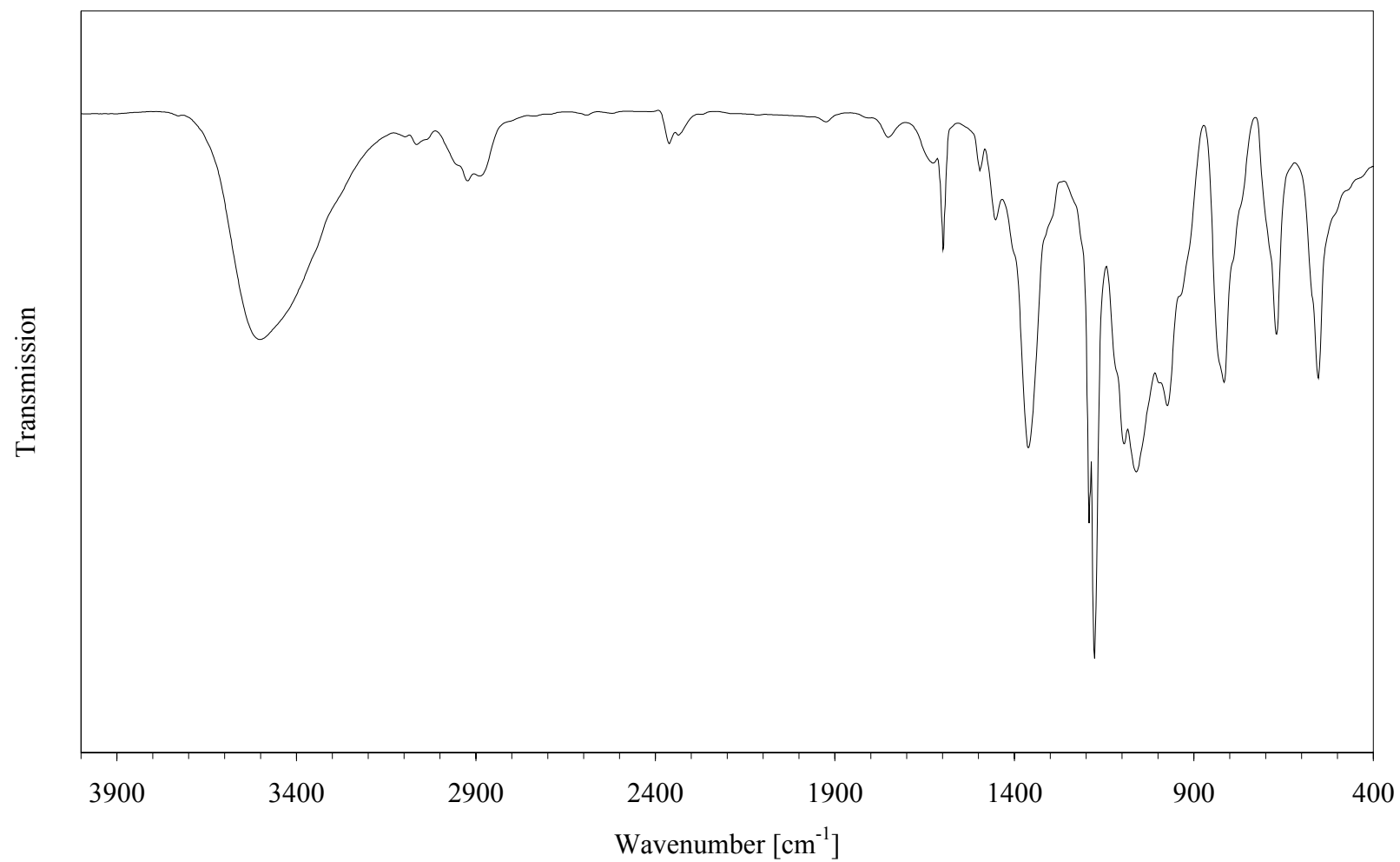
Cellulose tosylate

DS 0.46

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FTIR

KBr



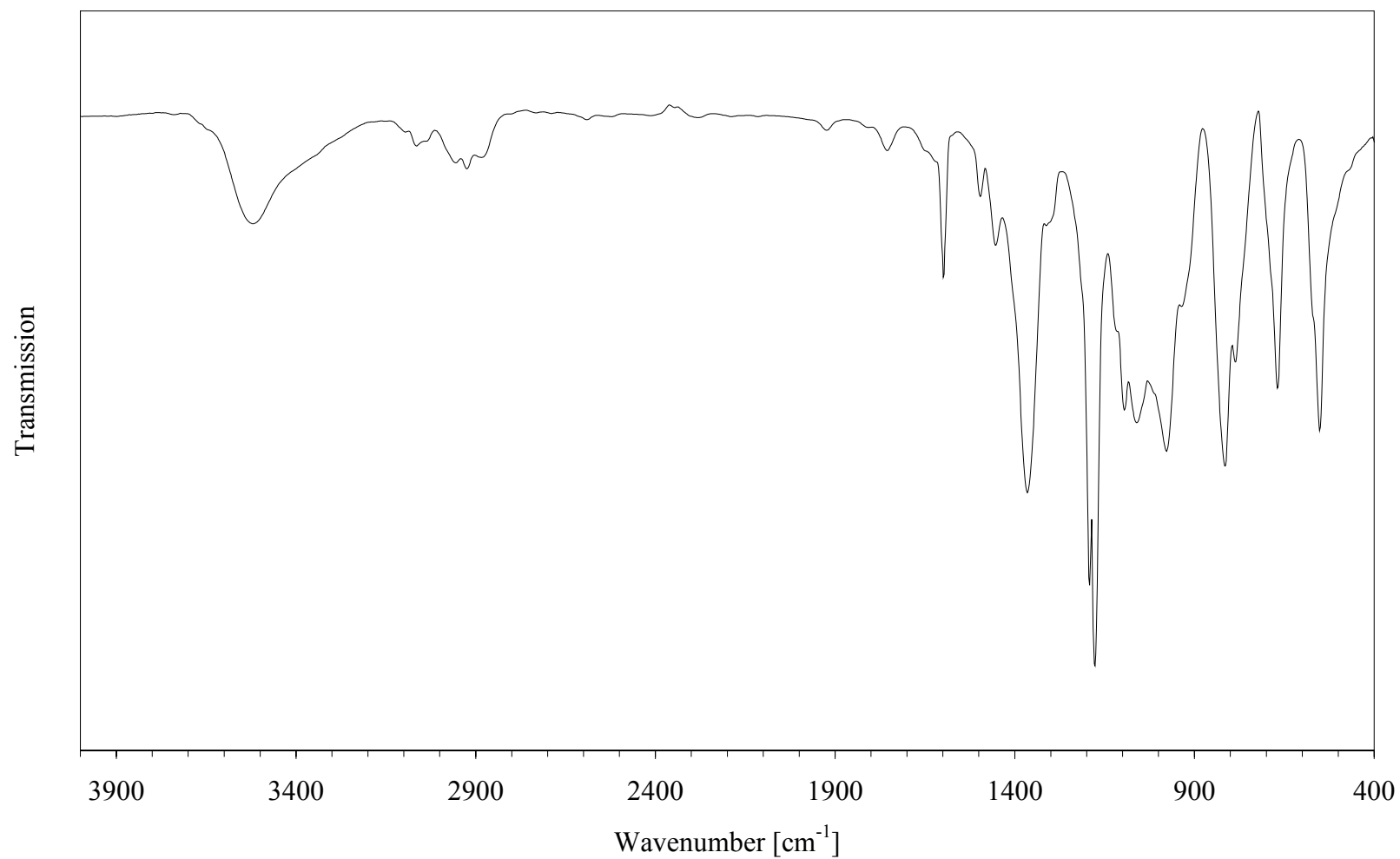
Cellulose tosylate

DS 1.12

FTIR

KBr

Back ↑



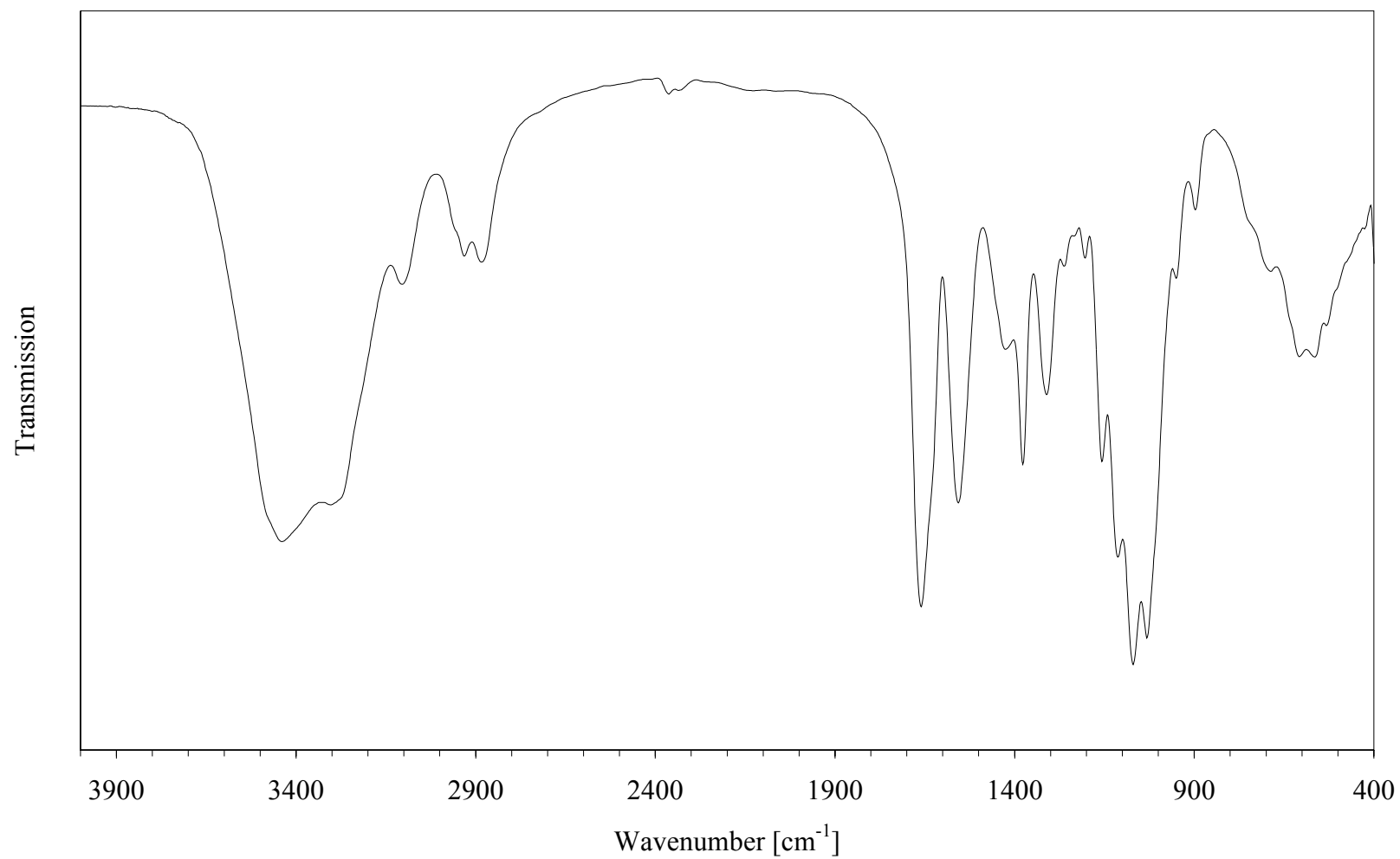
Cellulose tosylate

DS 1.89

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FTIR

KBr

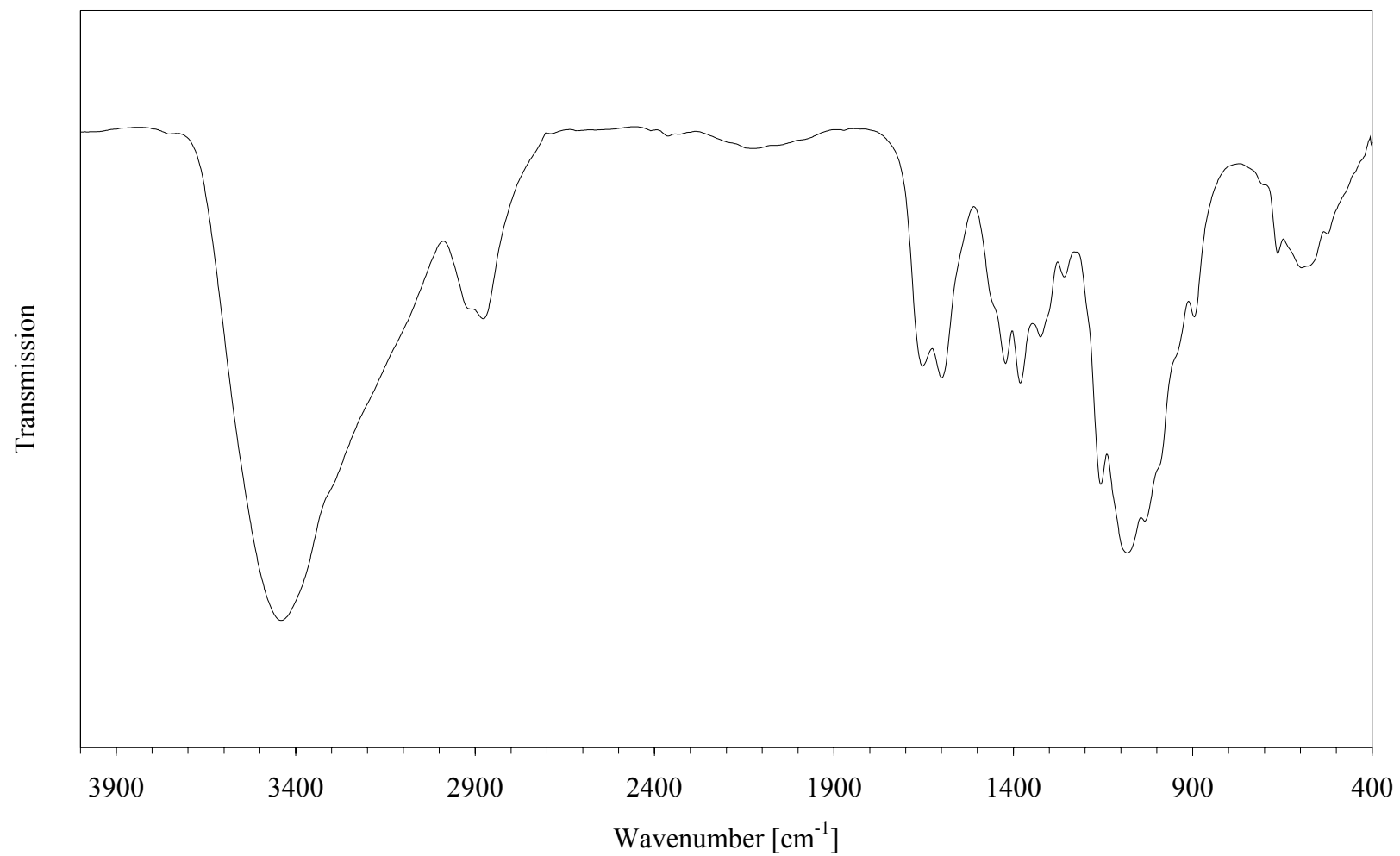


Chitin

FTIR

KBr

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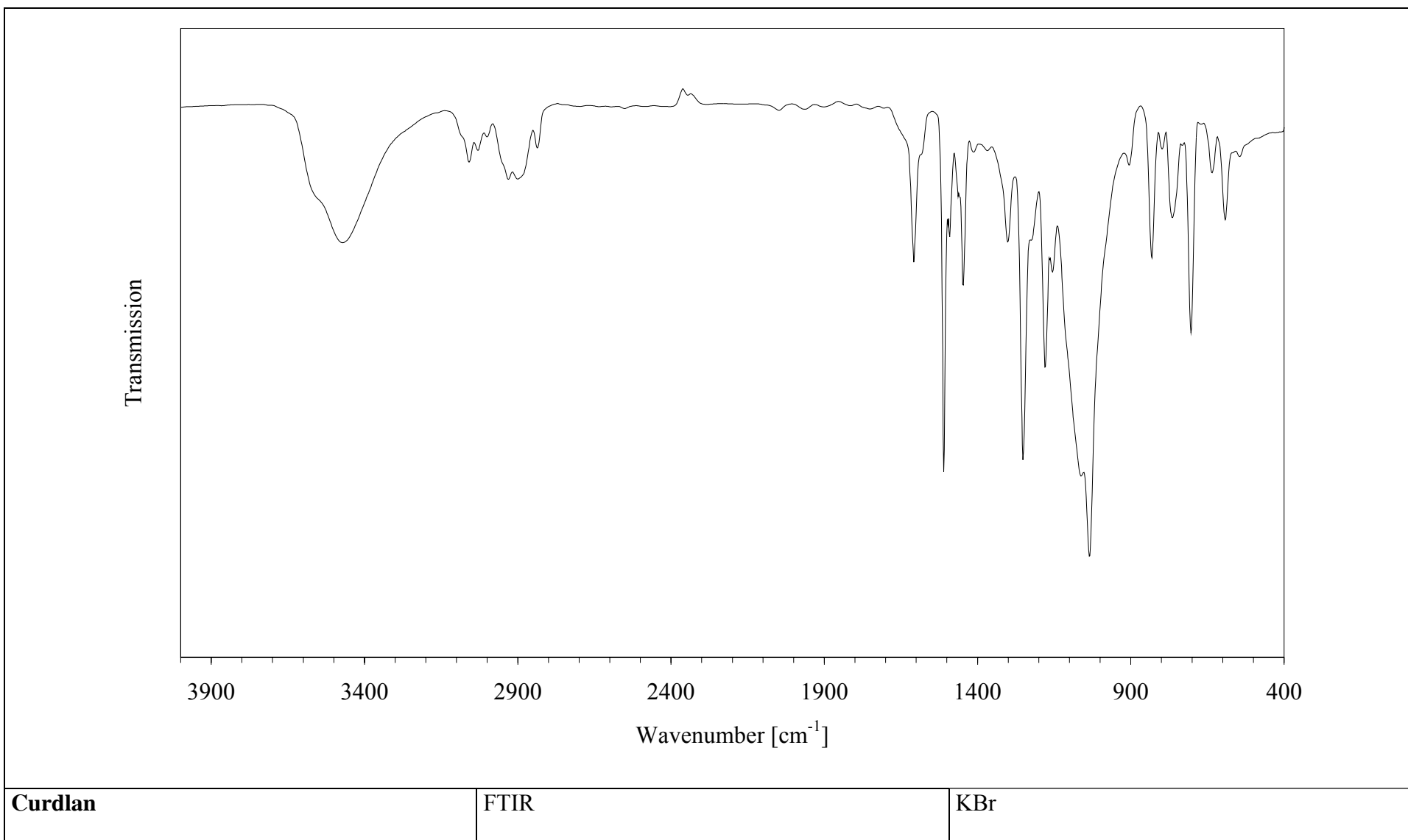


Chitosan

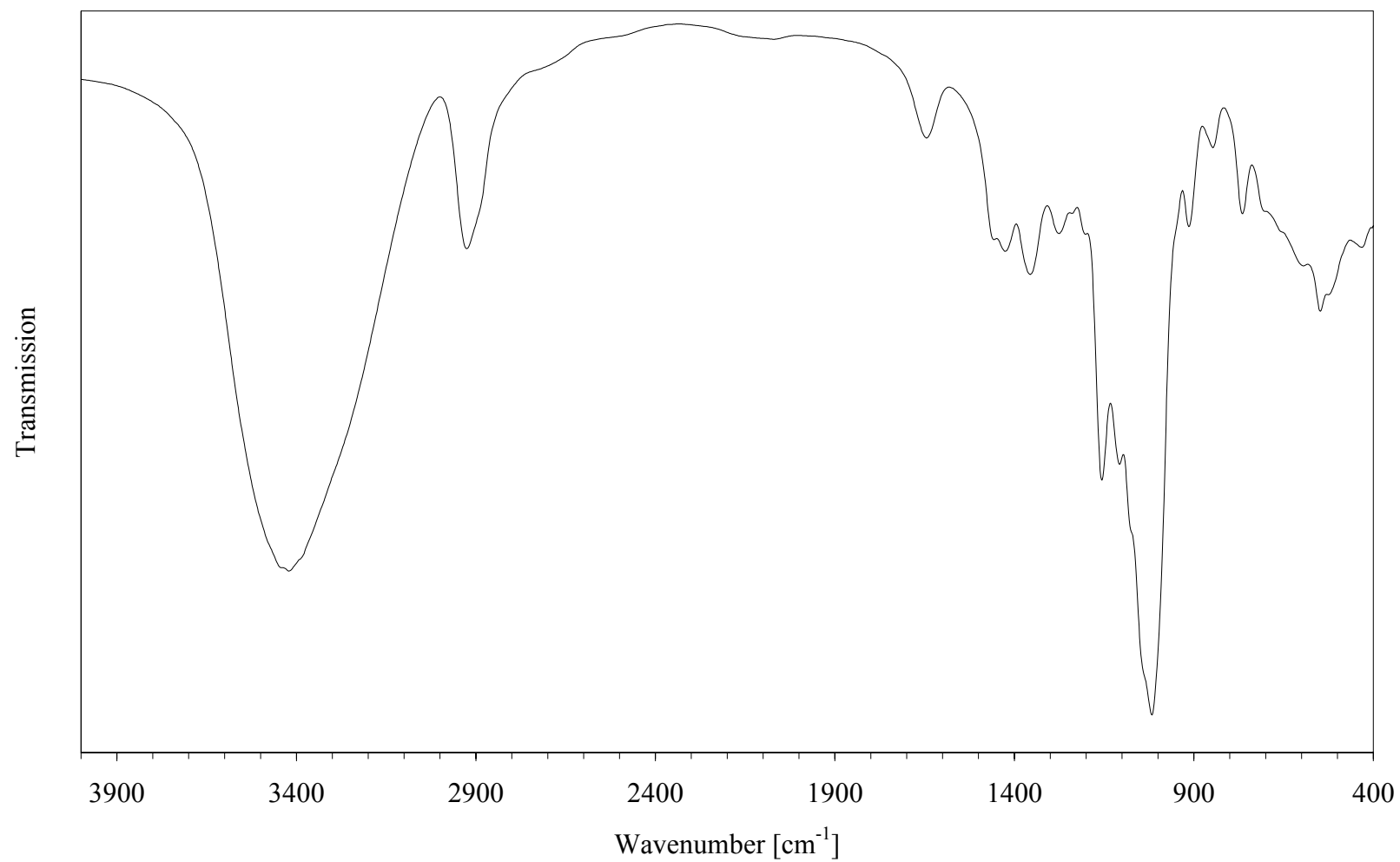
FTIR

KBr

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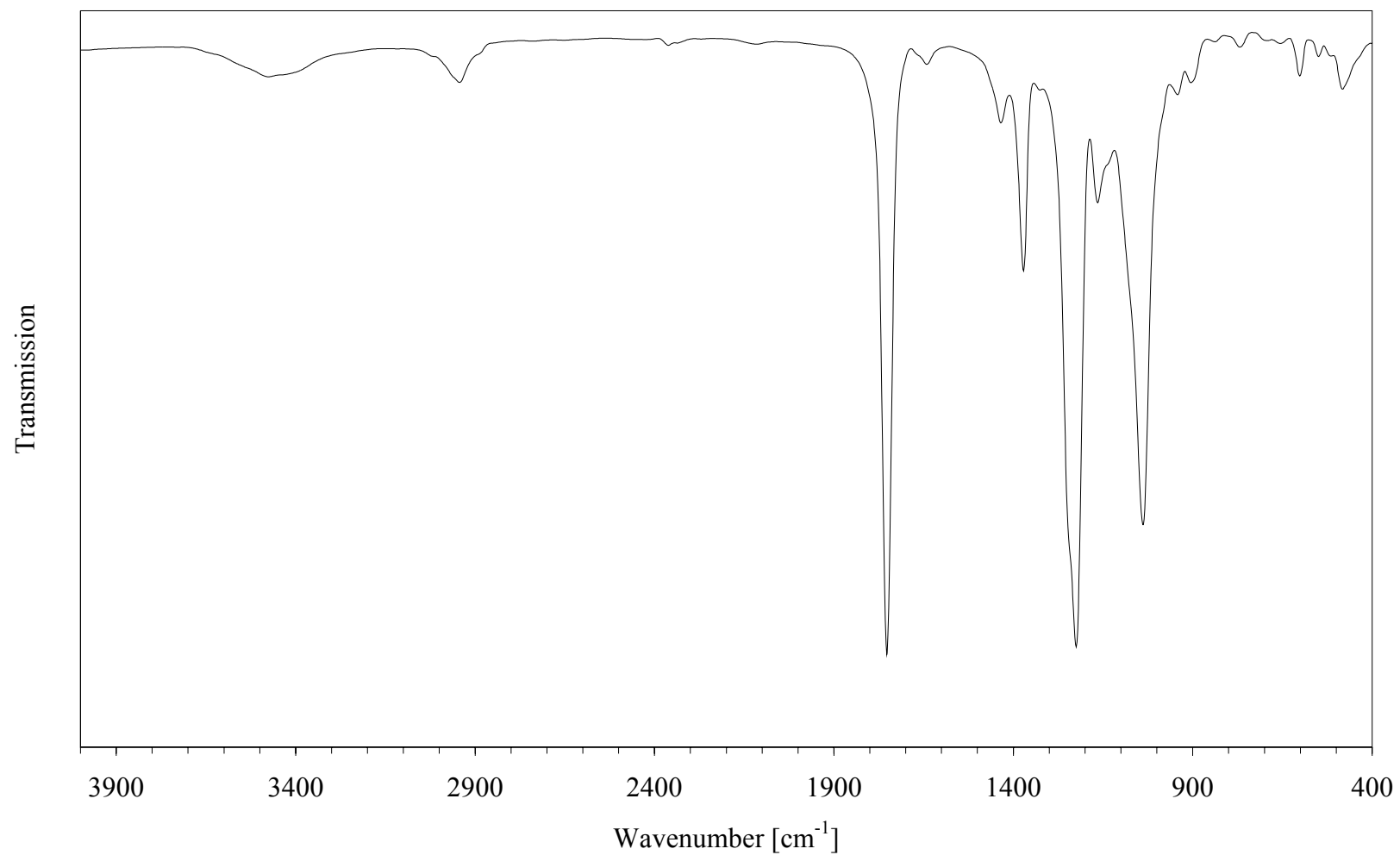


Dextran

FTIR

KBr

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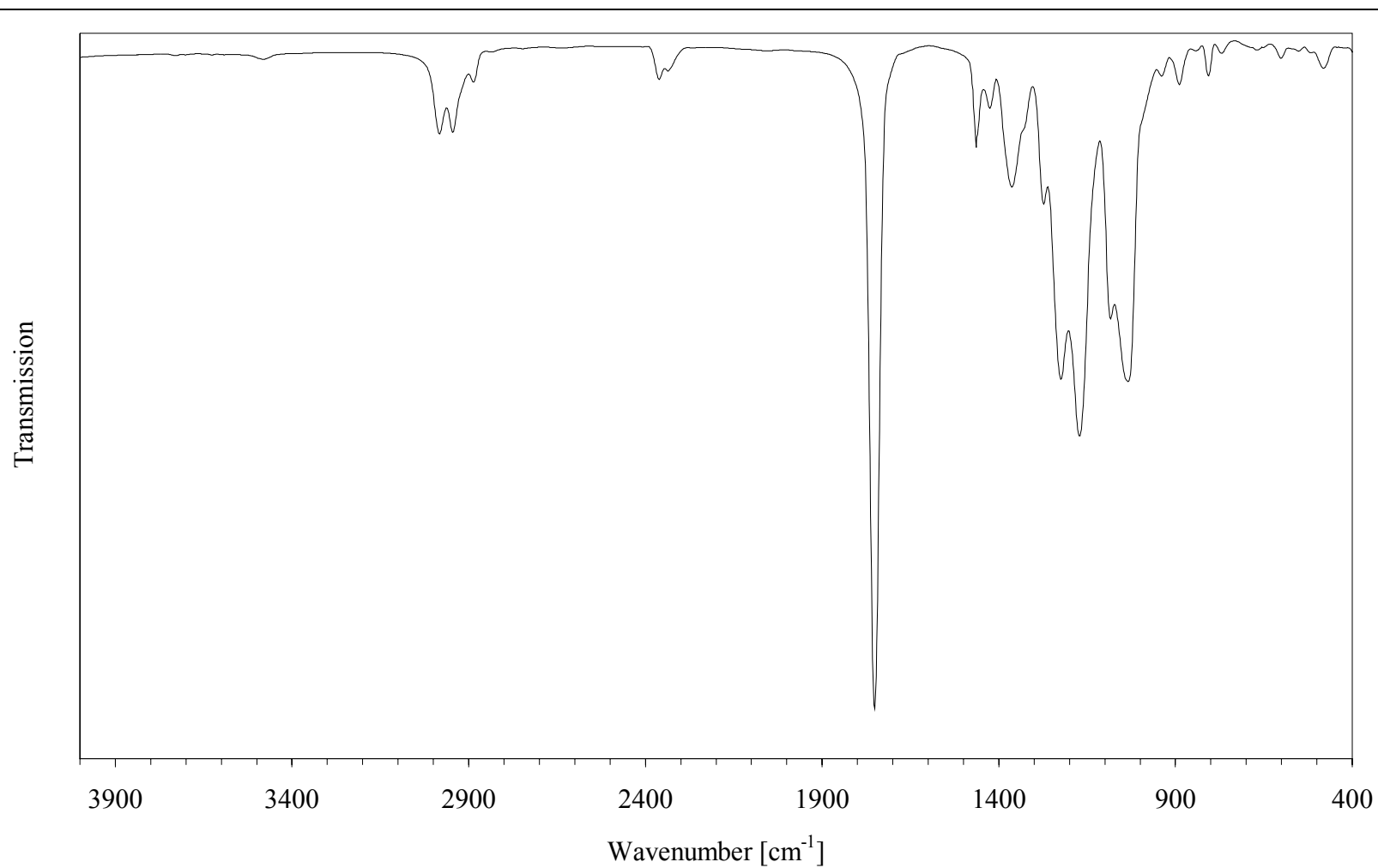


Dextran triacetate

FTIR

KBr

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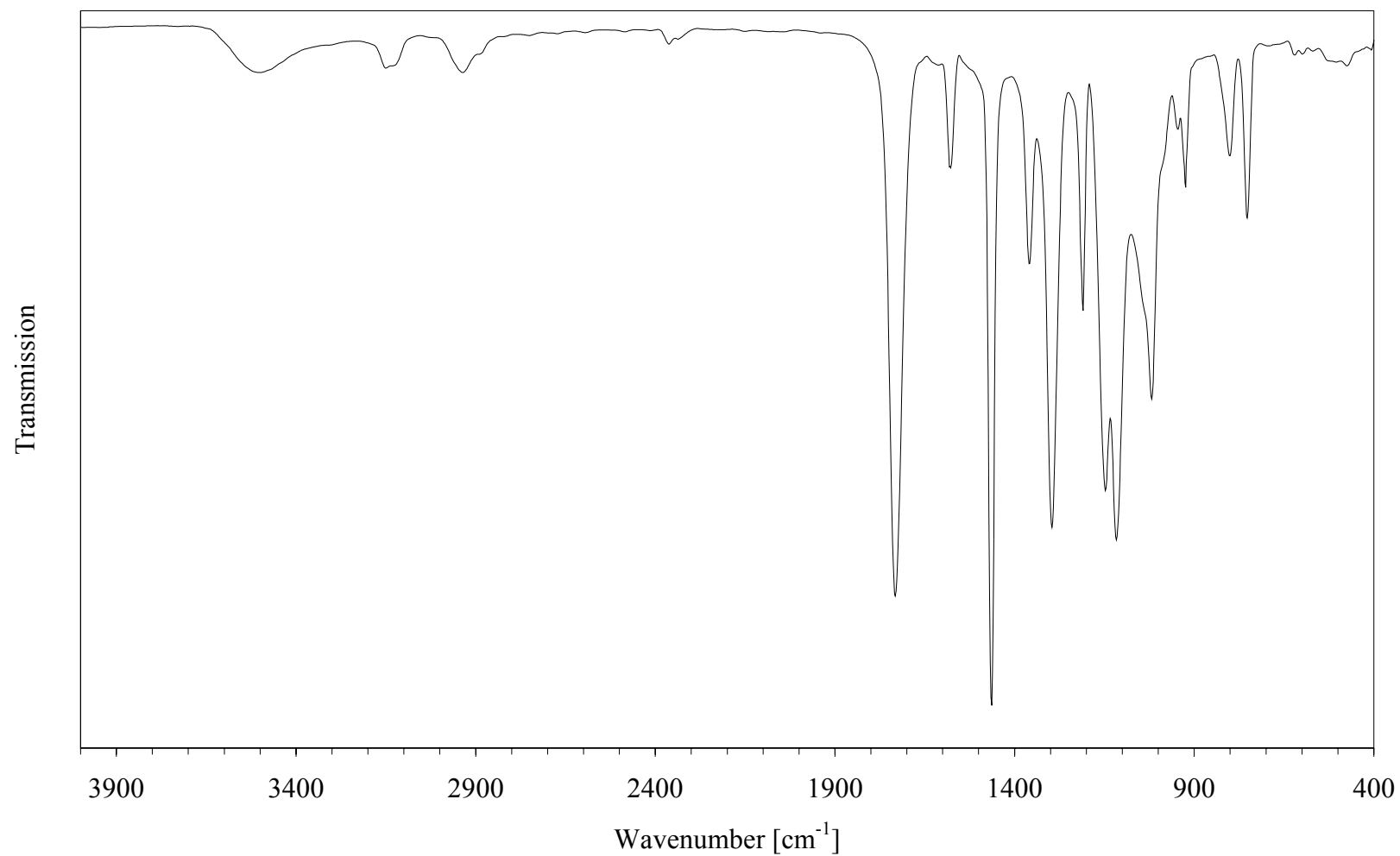
Dextran acetate propionate

DS_{Propionate} 1.70 DS_{Acetate} 1.30

FTIR

KBr

Back ↑

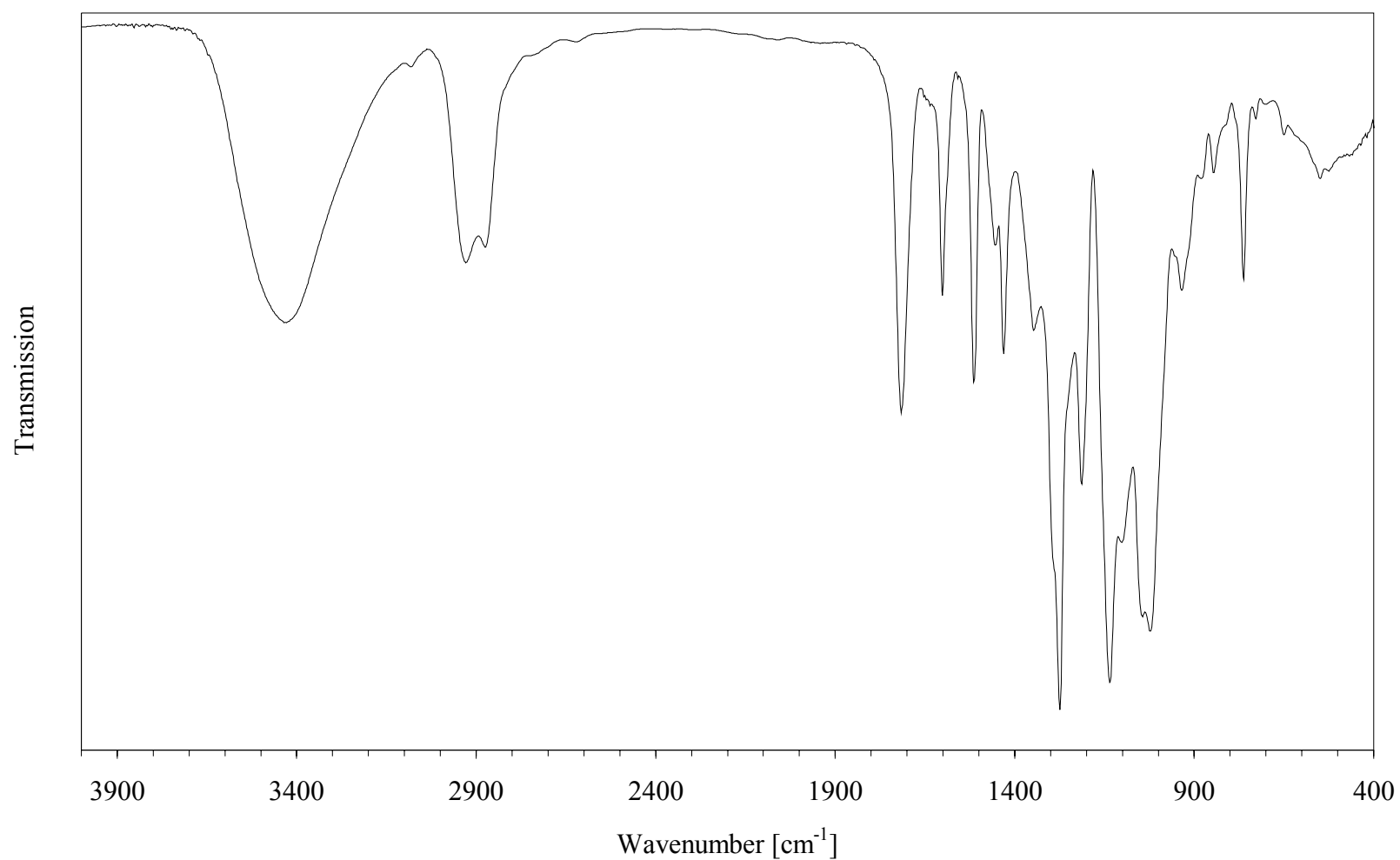


Dextran bromofuroate
DS 2.01

FTIR

KBr

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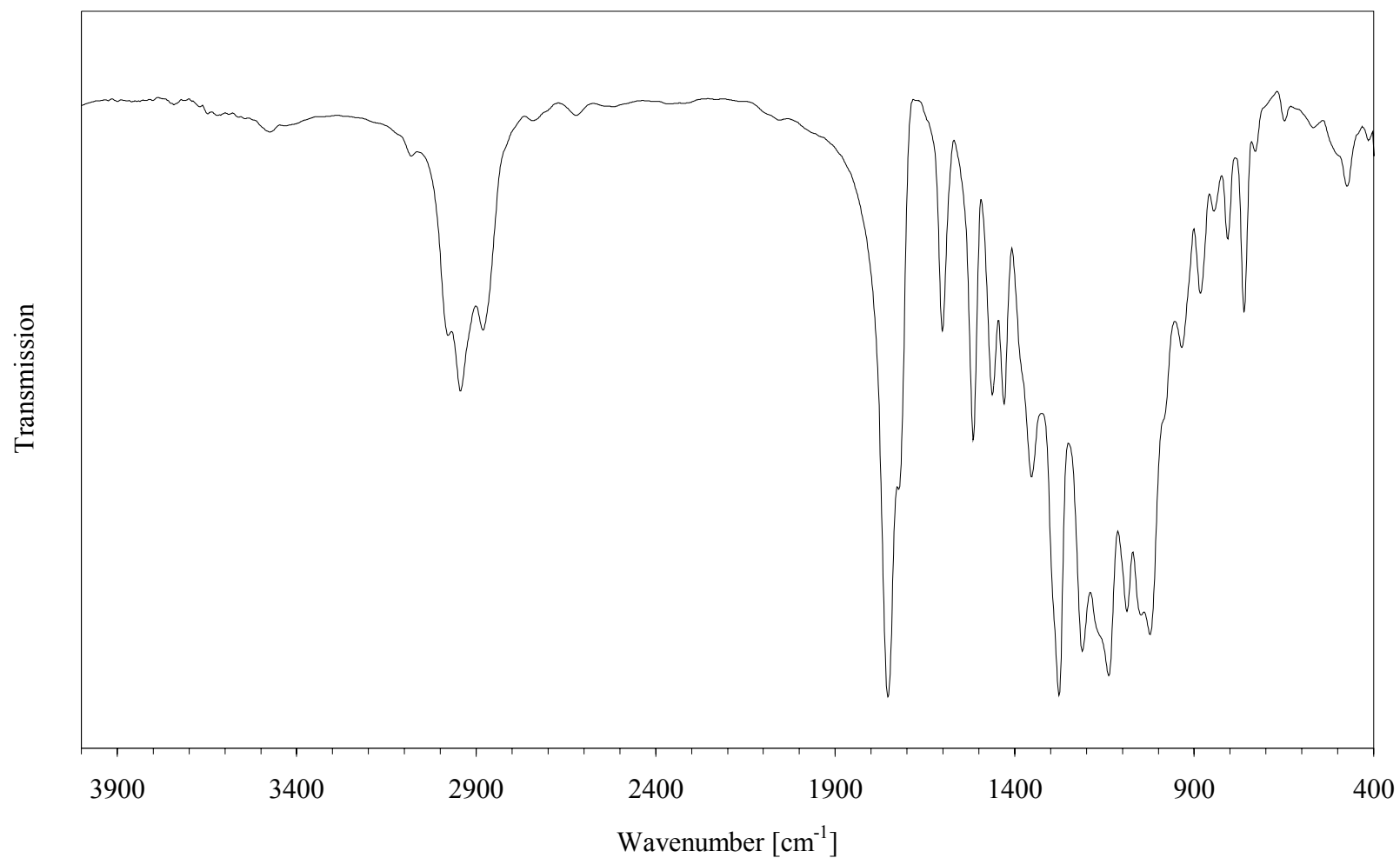


Dextran 4'-carboxybenzo-15-crown-5 ester
DS 0.22

FTIR

KBr

Back ↑

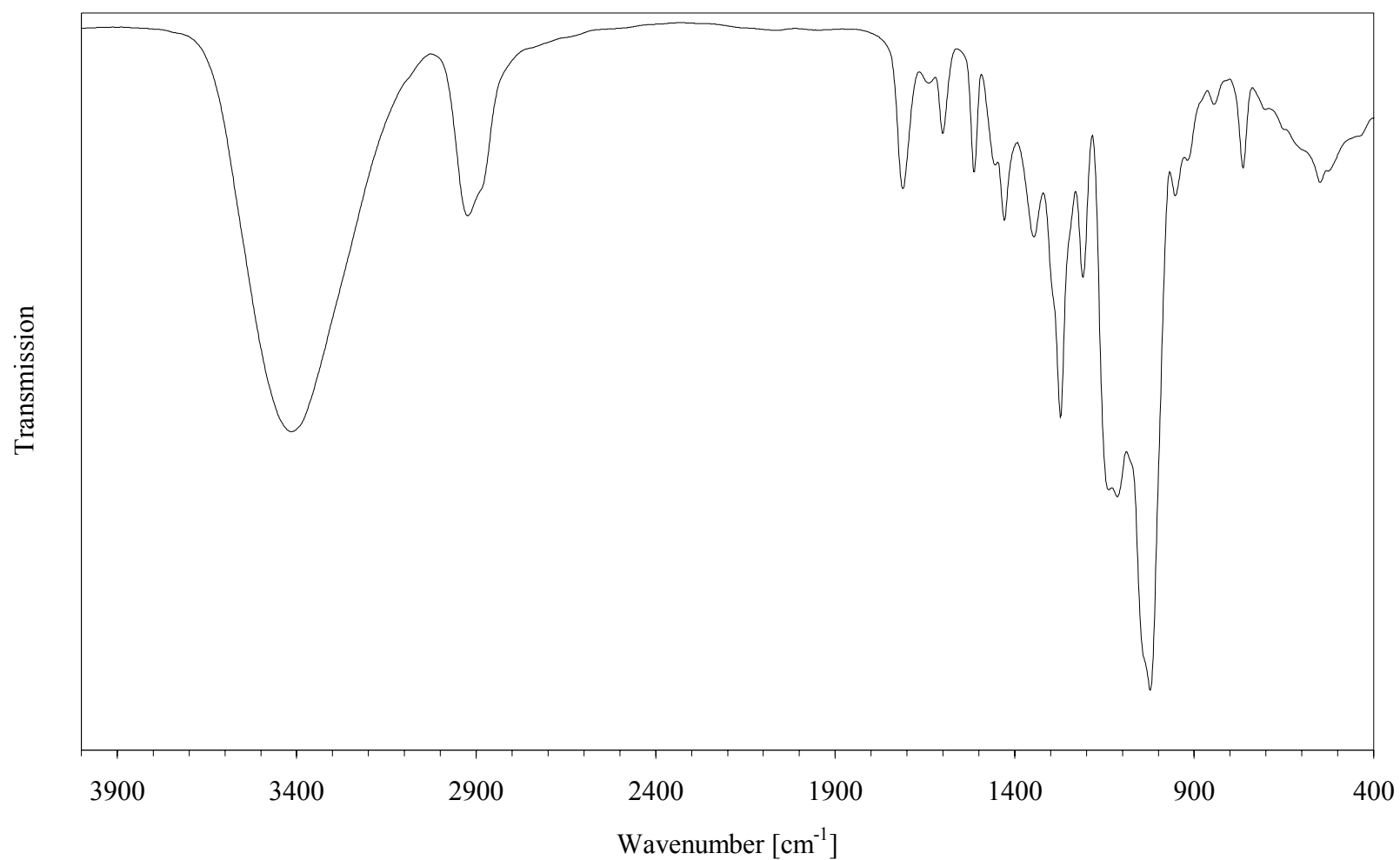


**Dextran 4'-carboxybenzo-15-crown-5 ester
peracetate DS 0.22**

FTIR

KBr

Back ↑

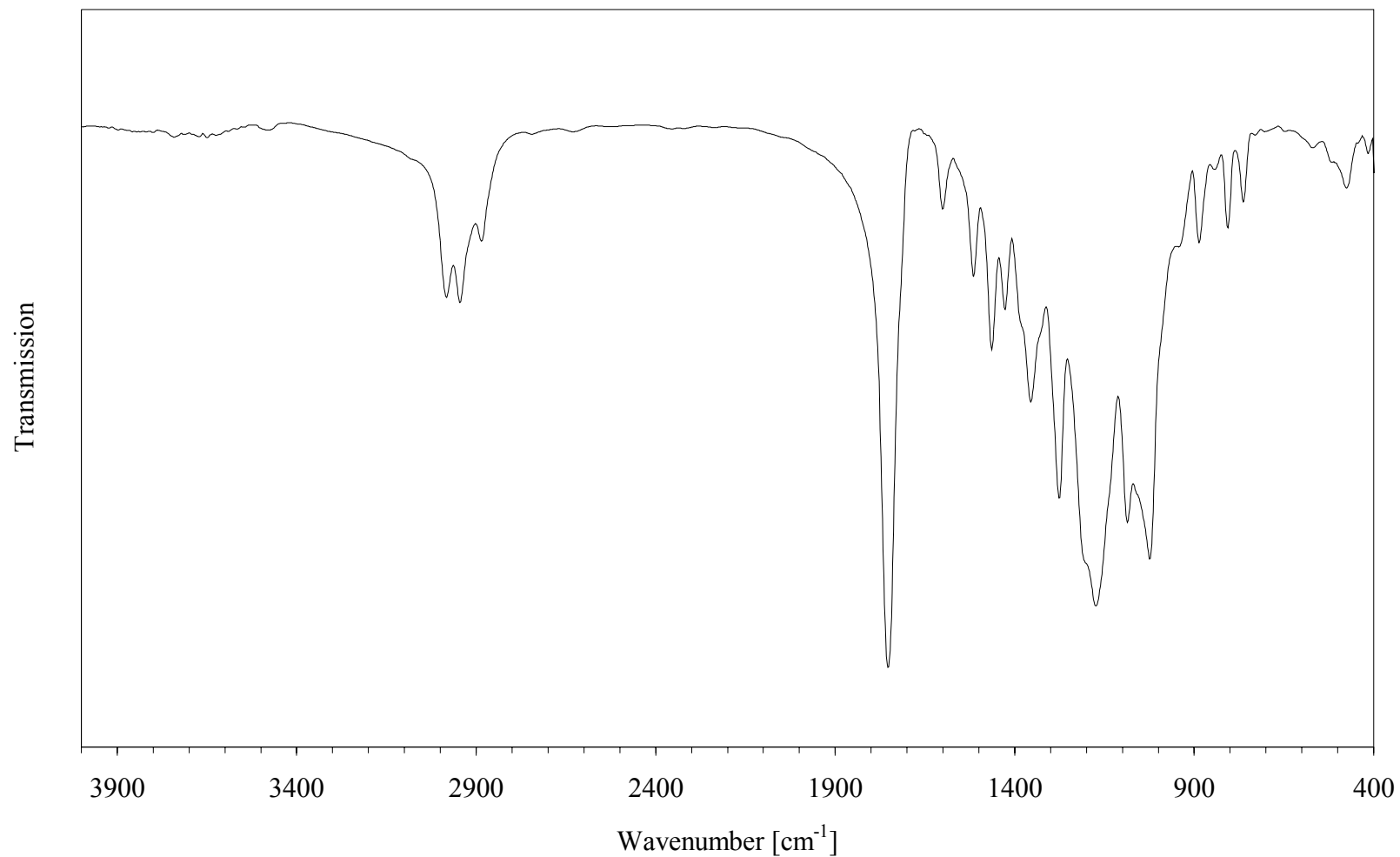


Dextran 4'-carboxybenzo-18-crown-6 ester
DS 0.22

FTIR

KBr

Back ↑

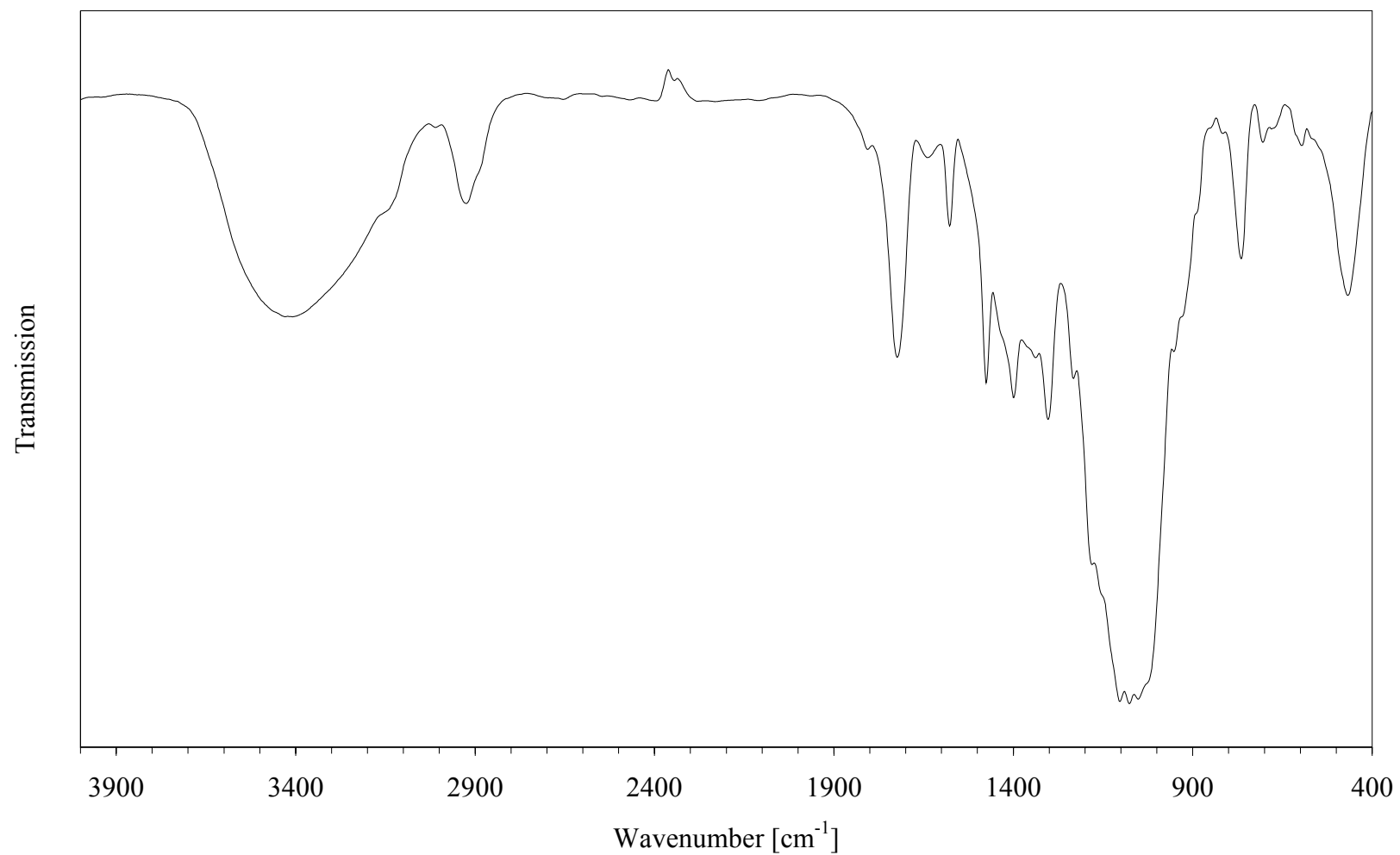


**Dextran 4'-carboxybenzo-18-crown-6 ester
peracetate DS 0.22**

FTIR

KBr

Back ↑



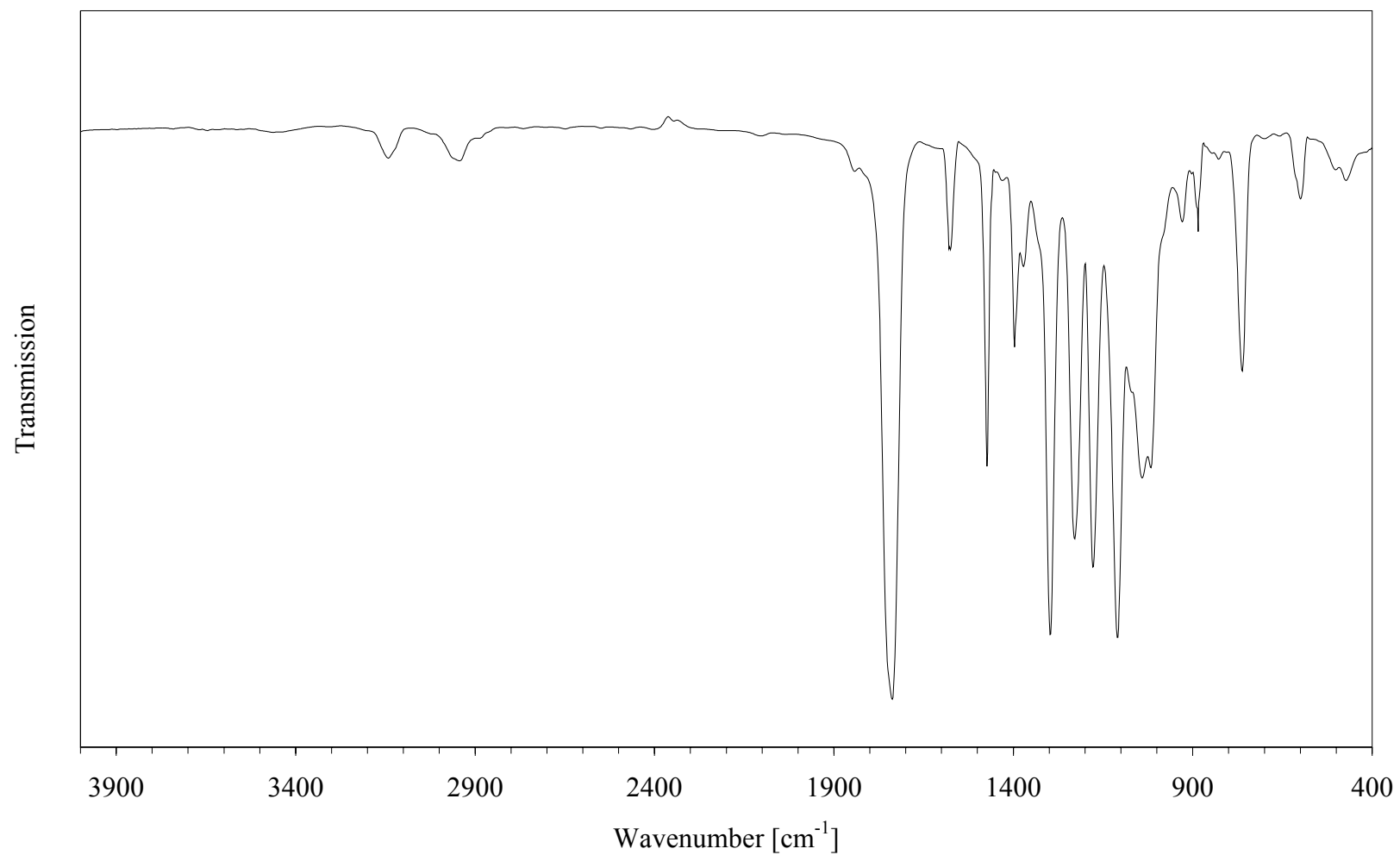
Dextran furoate

DS 1.83

FTIR

KBr

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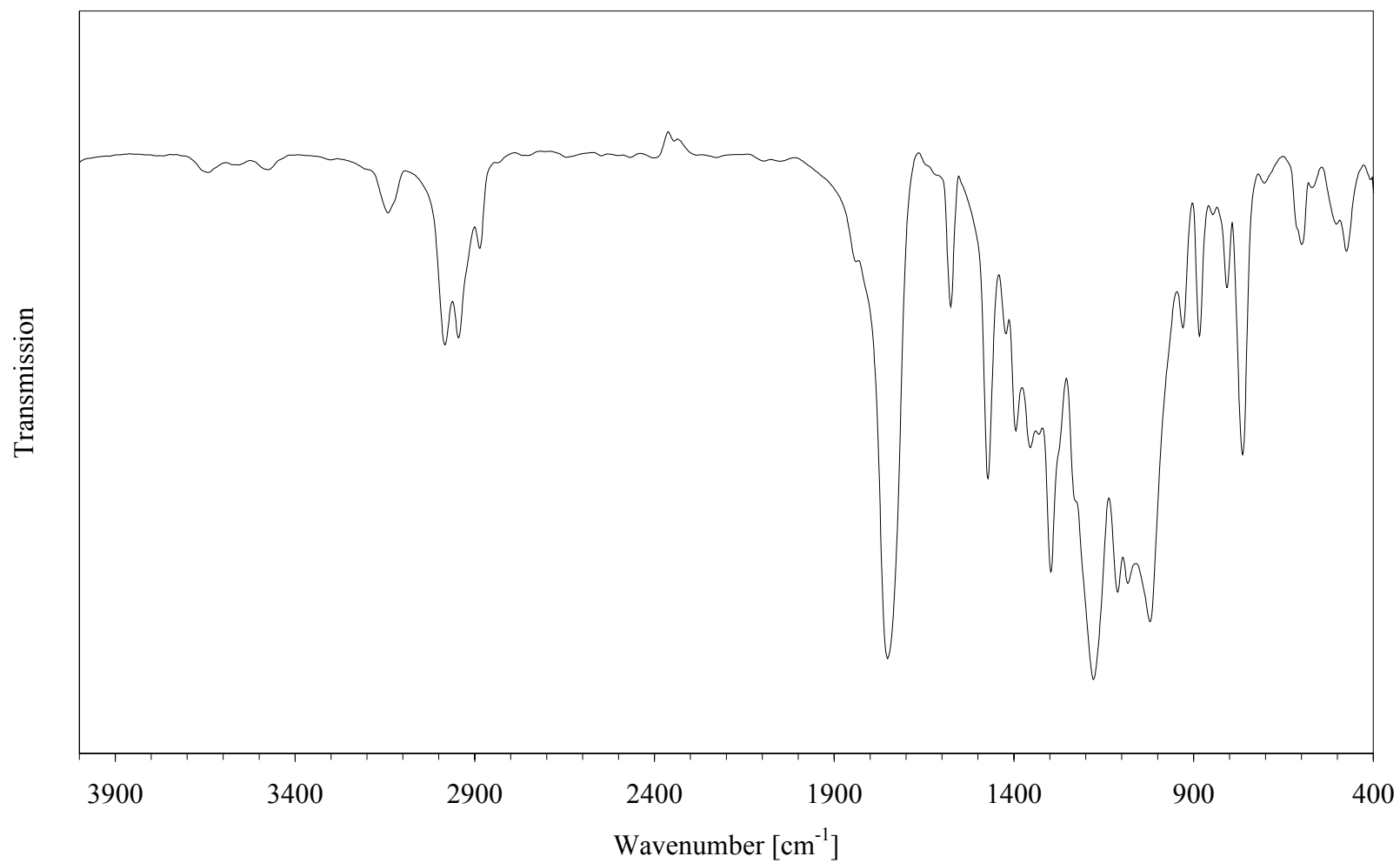
Dextran furoate peracetate

DS 1.73

FTIR

KBr

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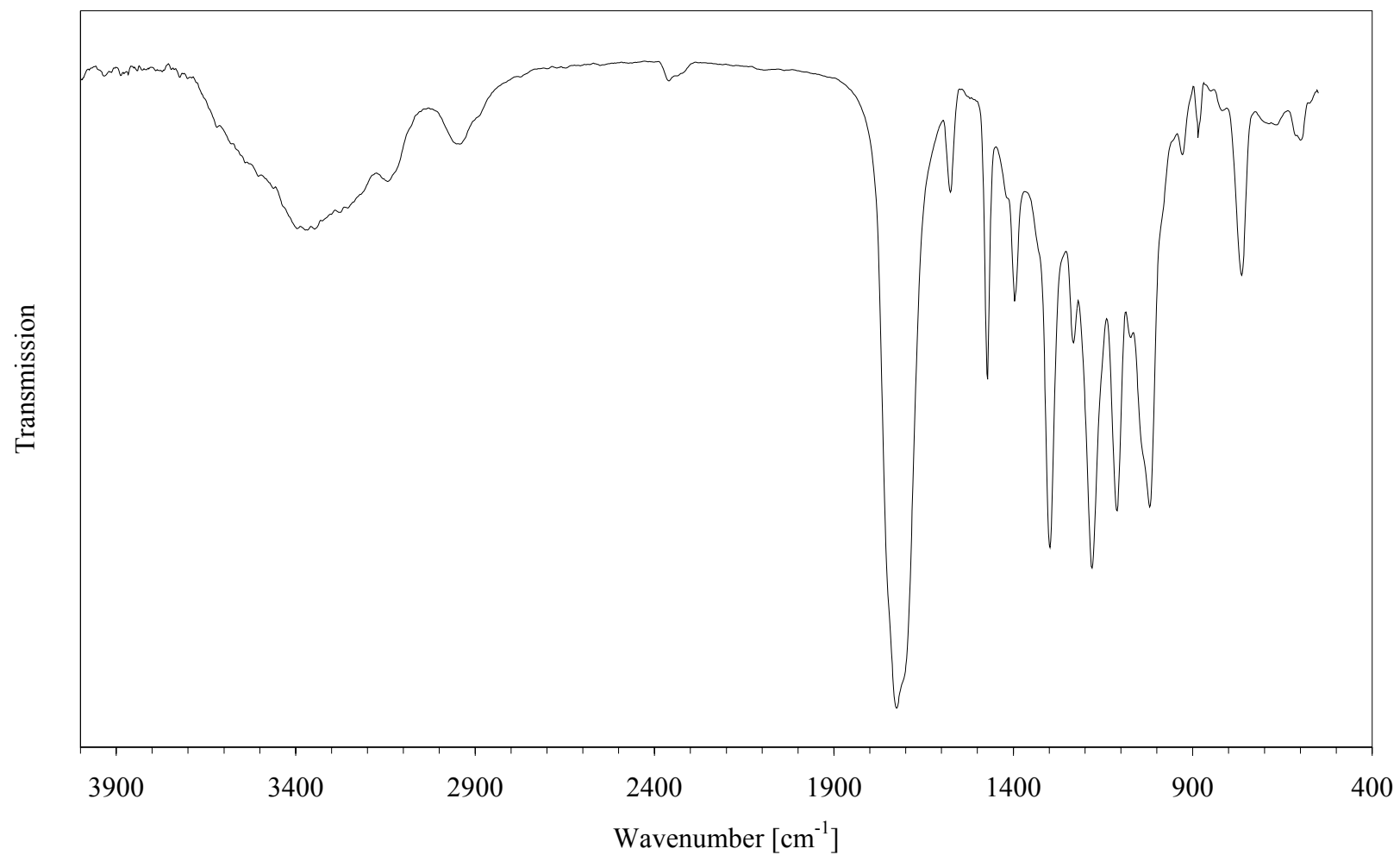
Dextran furoate perpropionate

DS 1.83

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FTIR

KBr



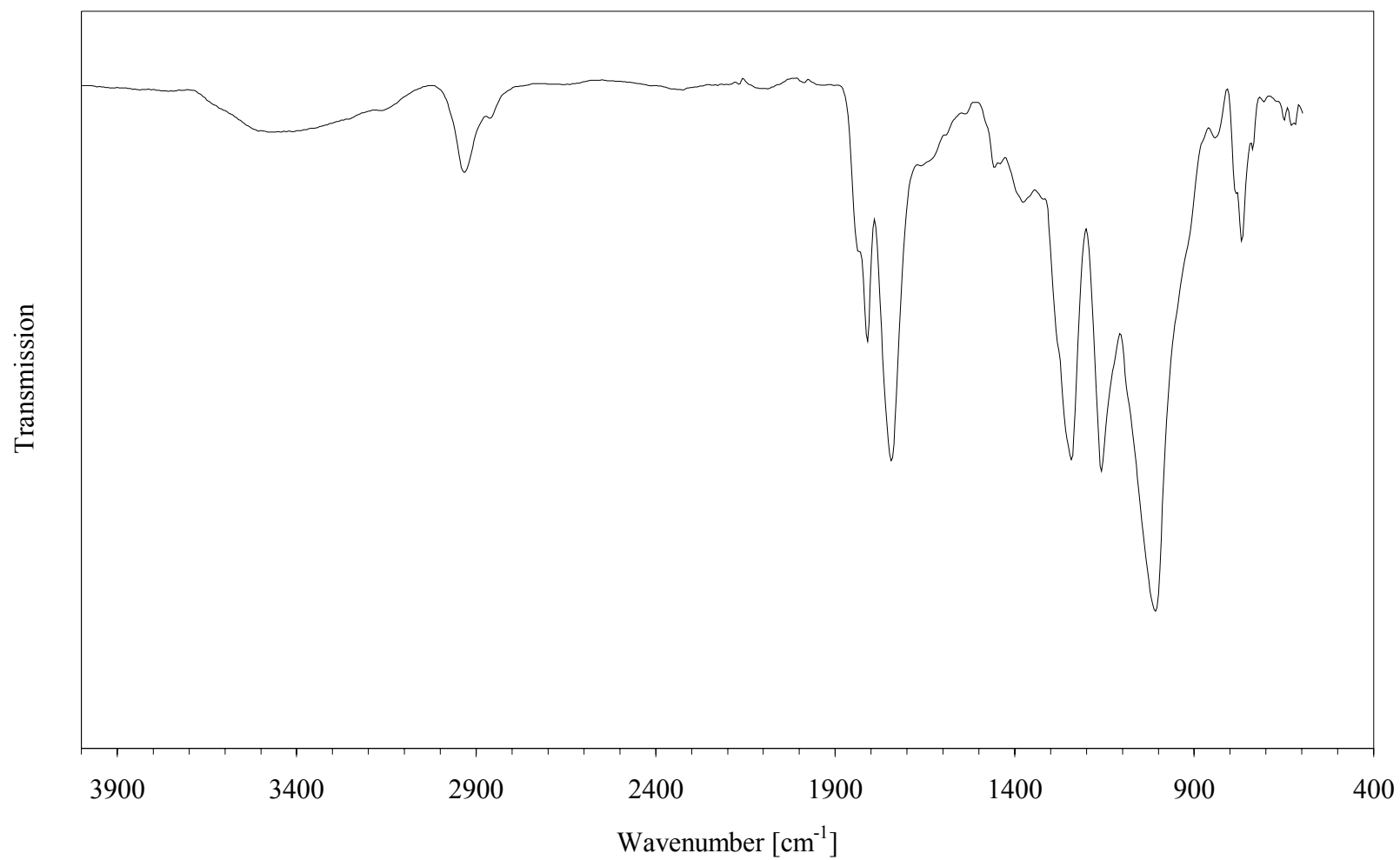
Dextran furoate pyroglutamate

DS_{Furoate} 1.11 DS_{Pyroglutamate} 0.94

FTIR

KBr

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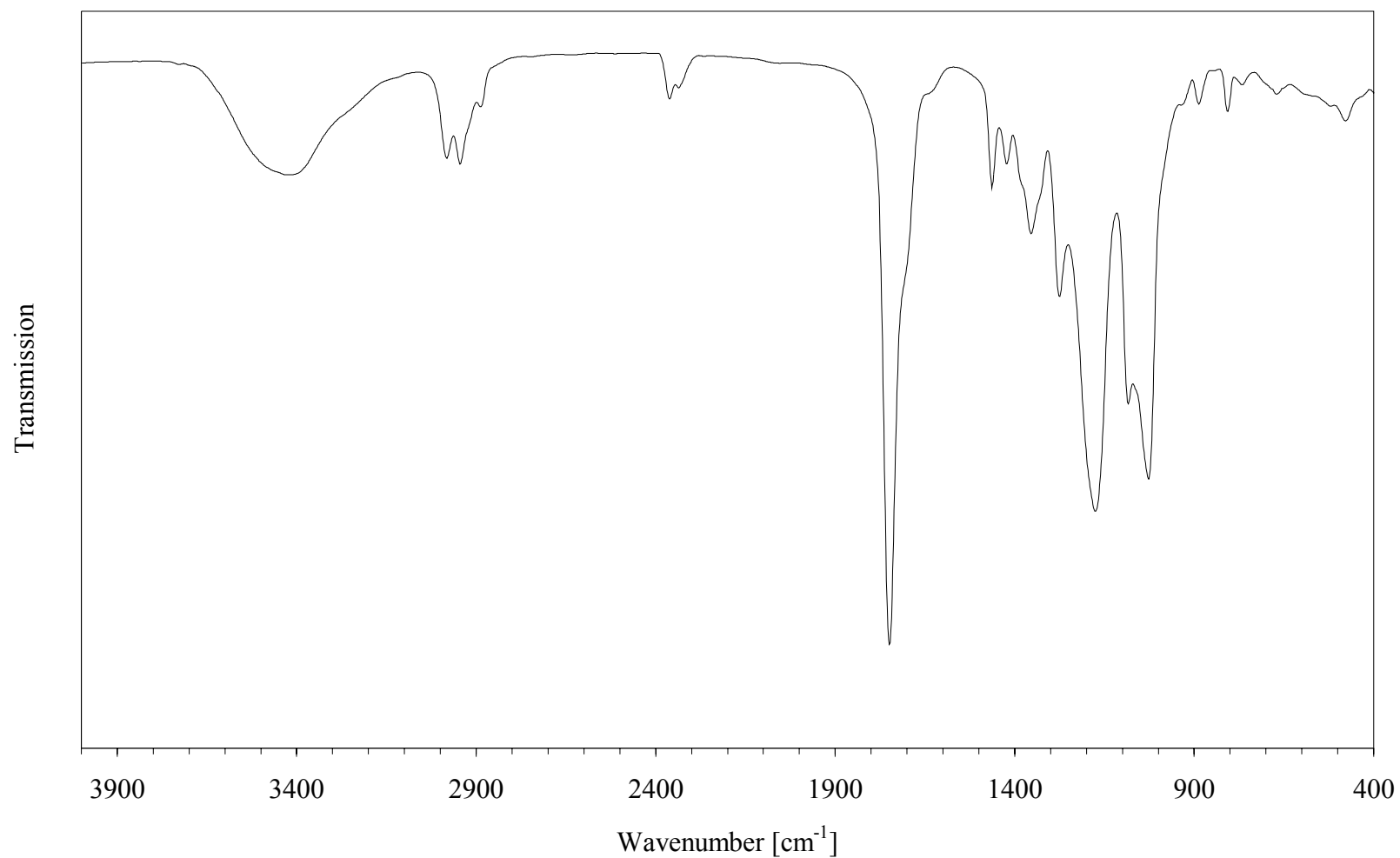


Dextran DL-α-lipoate
DS 0.44

FTIR

KBr

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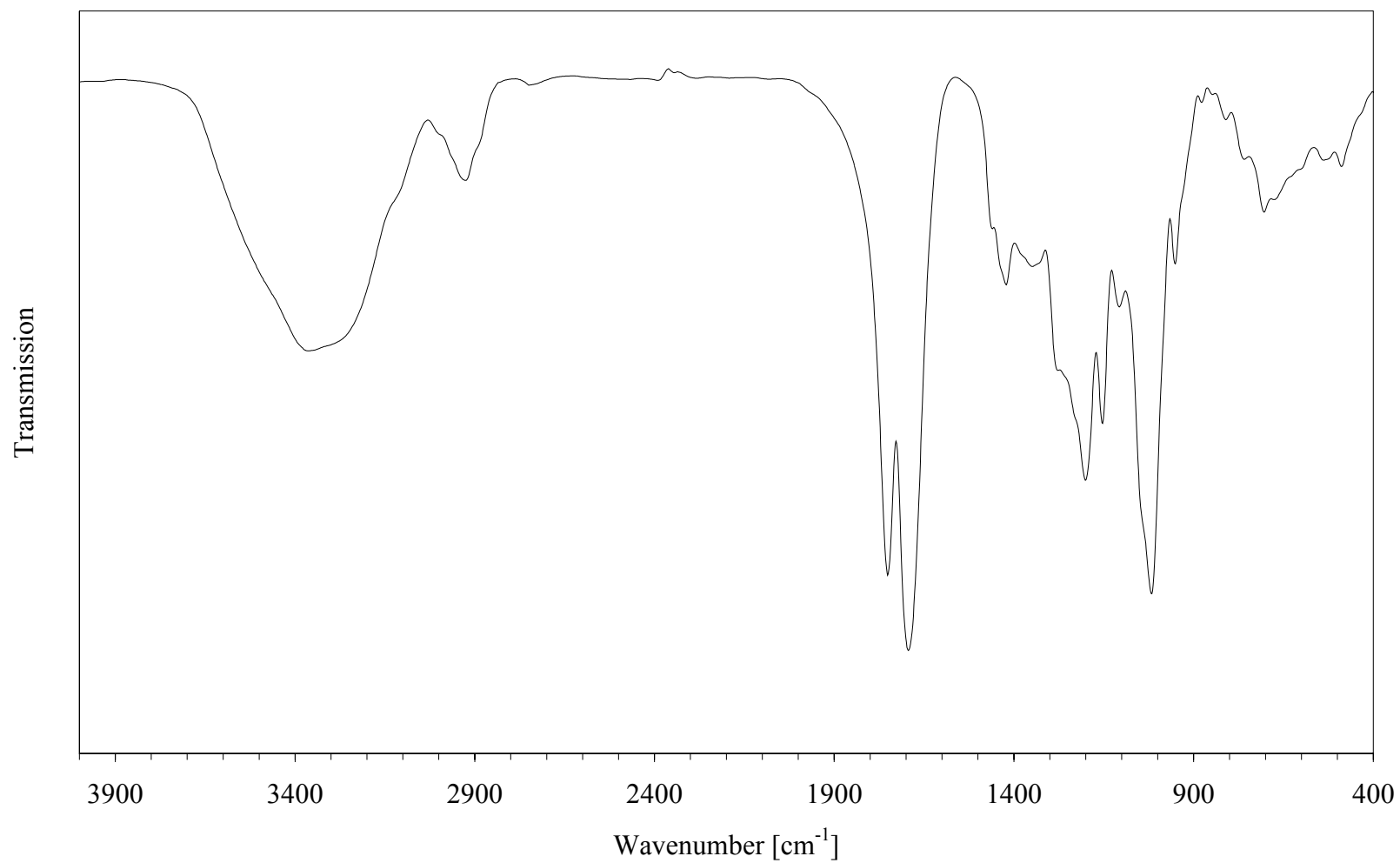
Dextran propionate pyroglutamate

DS_{Propionate} 1.70 DS_{Pyroglutamate} 0.26

FTIR

KBr

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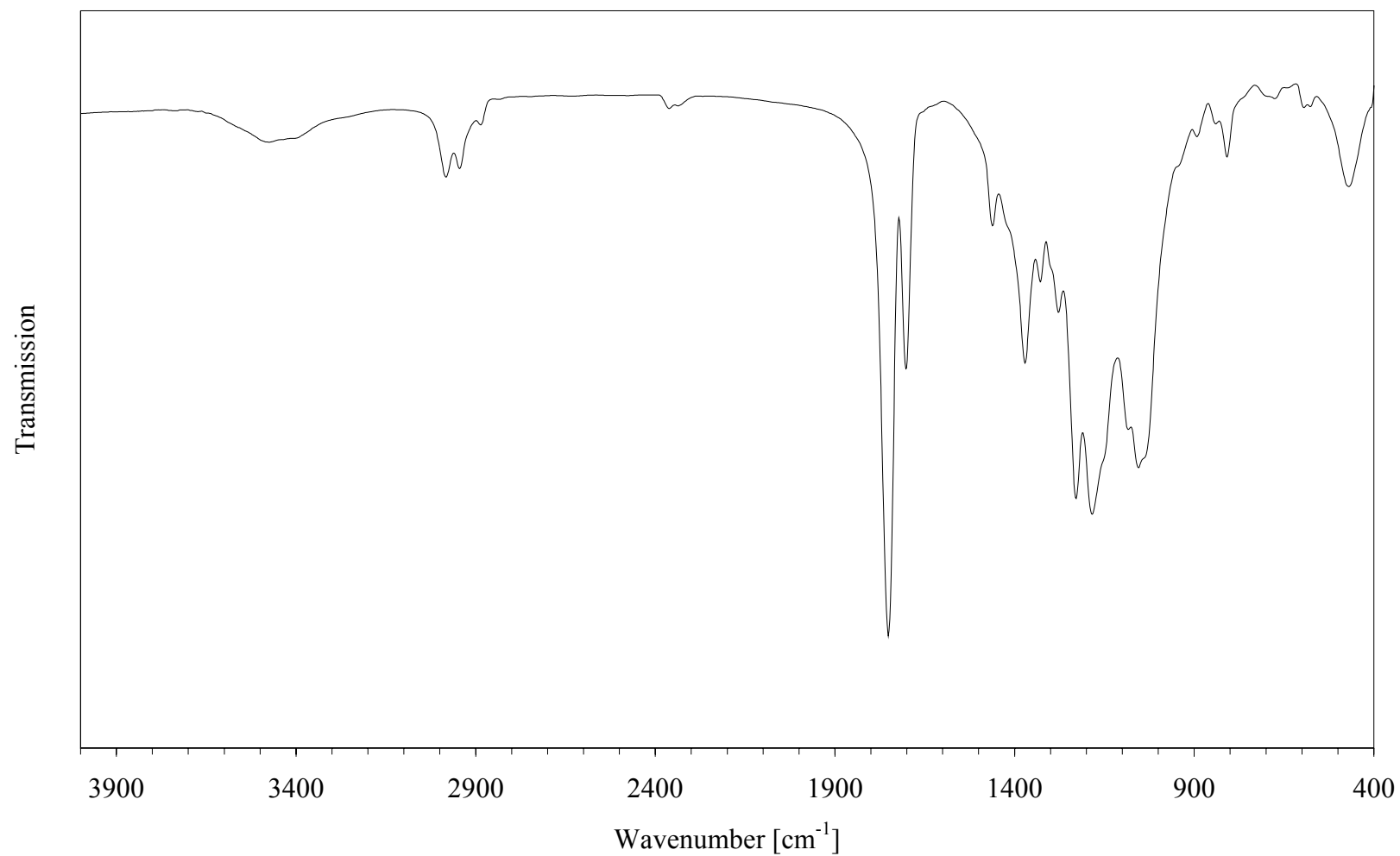
Dextran pyroglutamate

DS 1.19

FTIR

KBr

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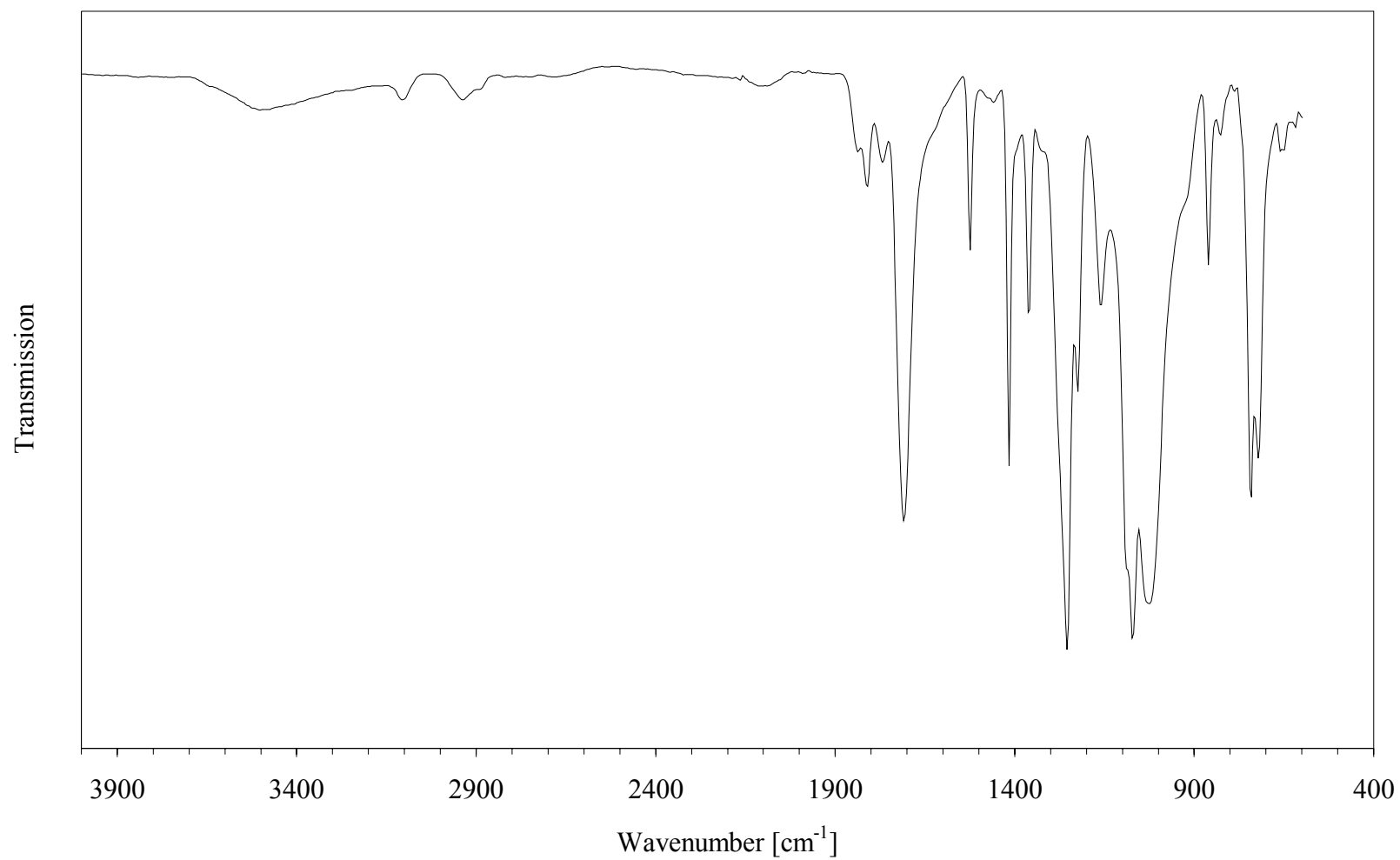
Dextran pyroglutamate perpropionate

DS 1.20

FTIR

KBr

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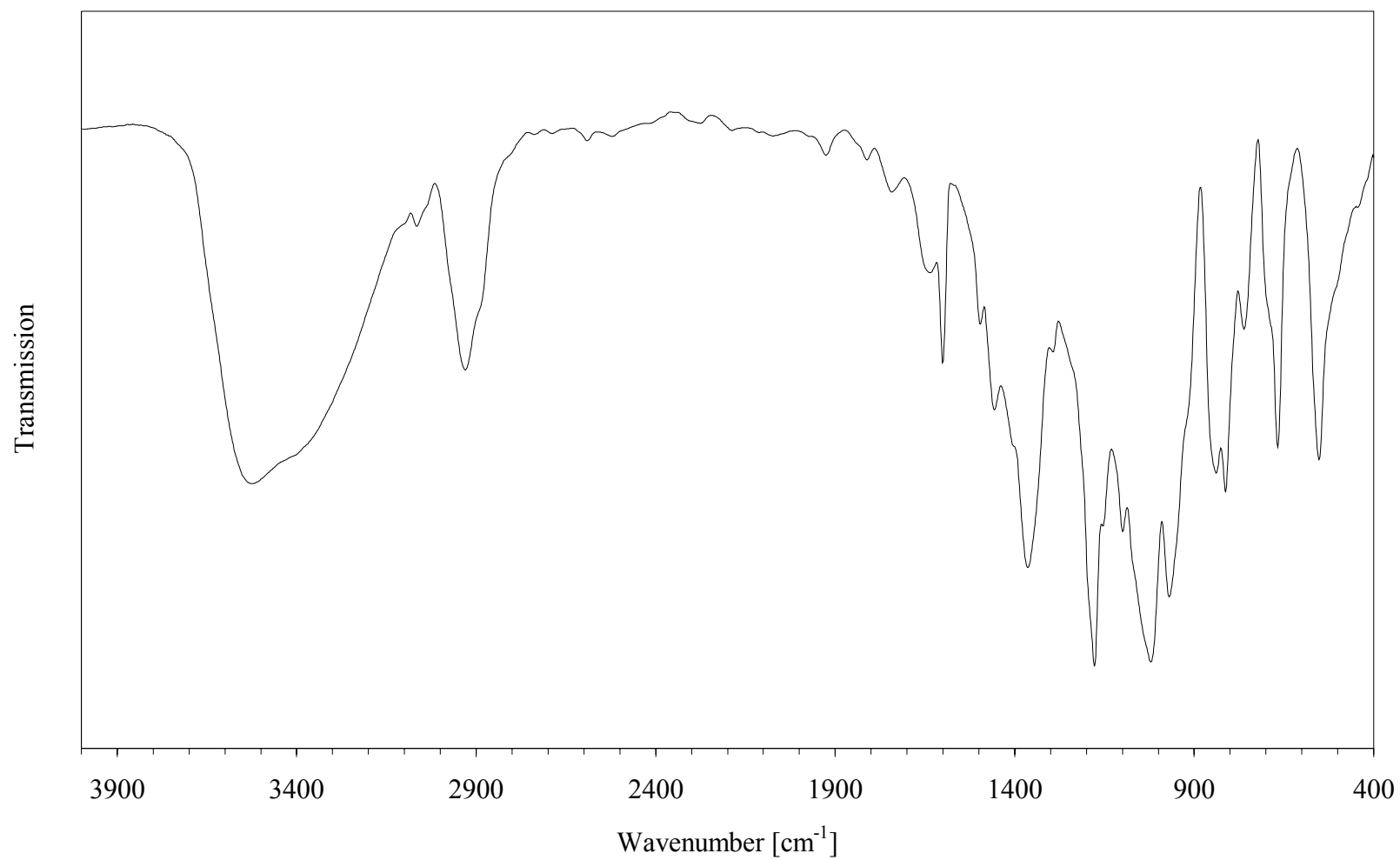
Dextran thiophen-2-carboxylate

DS 1.22

FTIR

KBr

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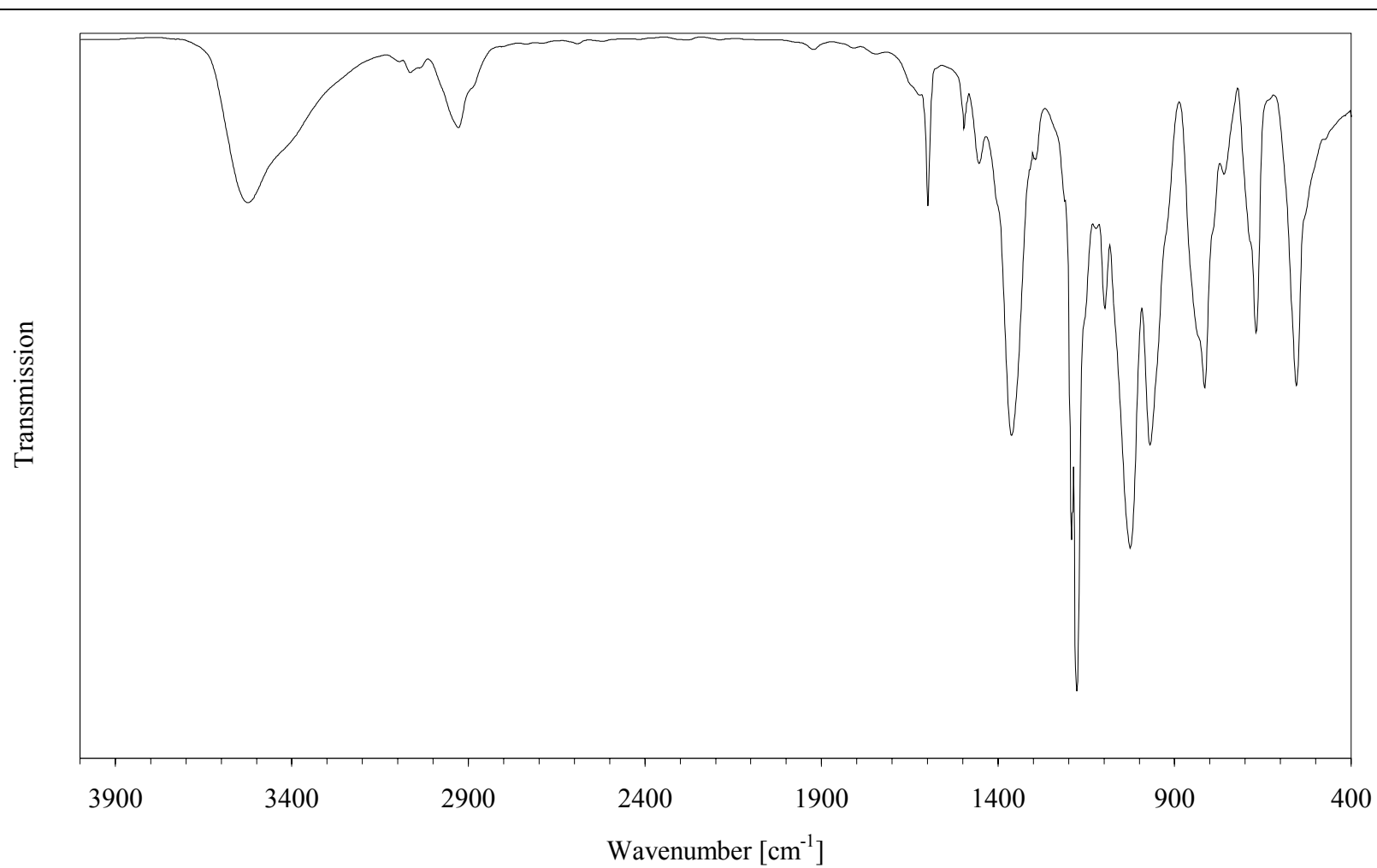


Dextran tosylate
DS 0.70

FTIR

KBr

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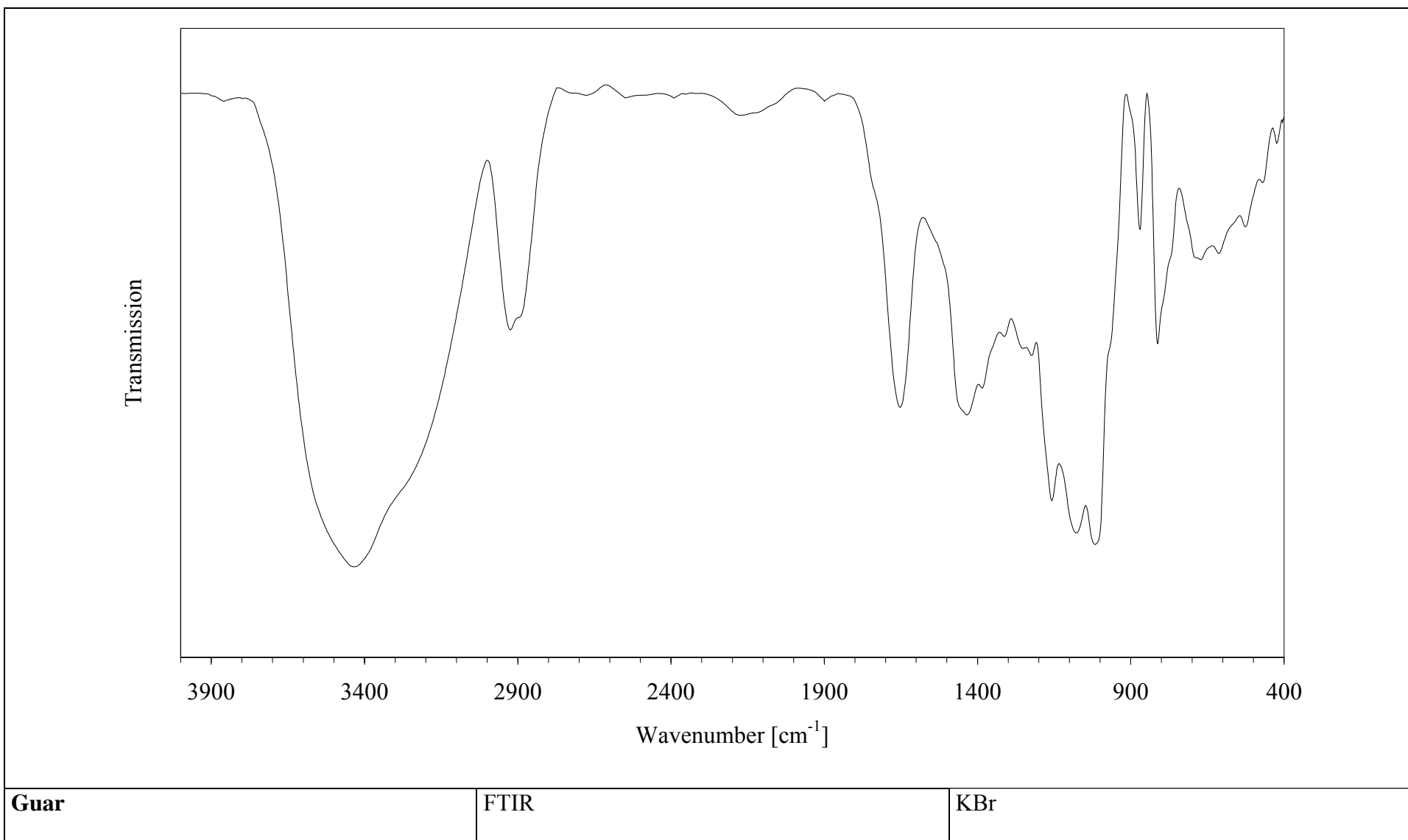
Dextran tosylate

DS 1.46

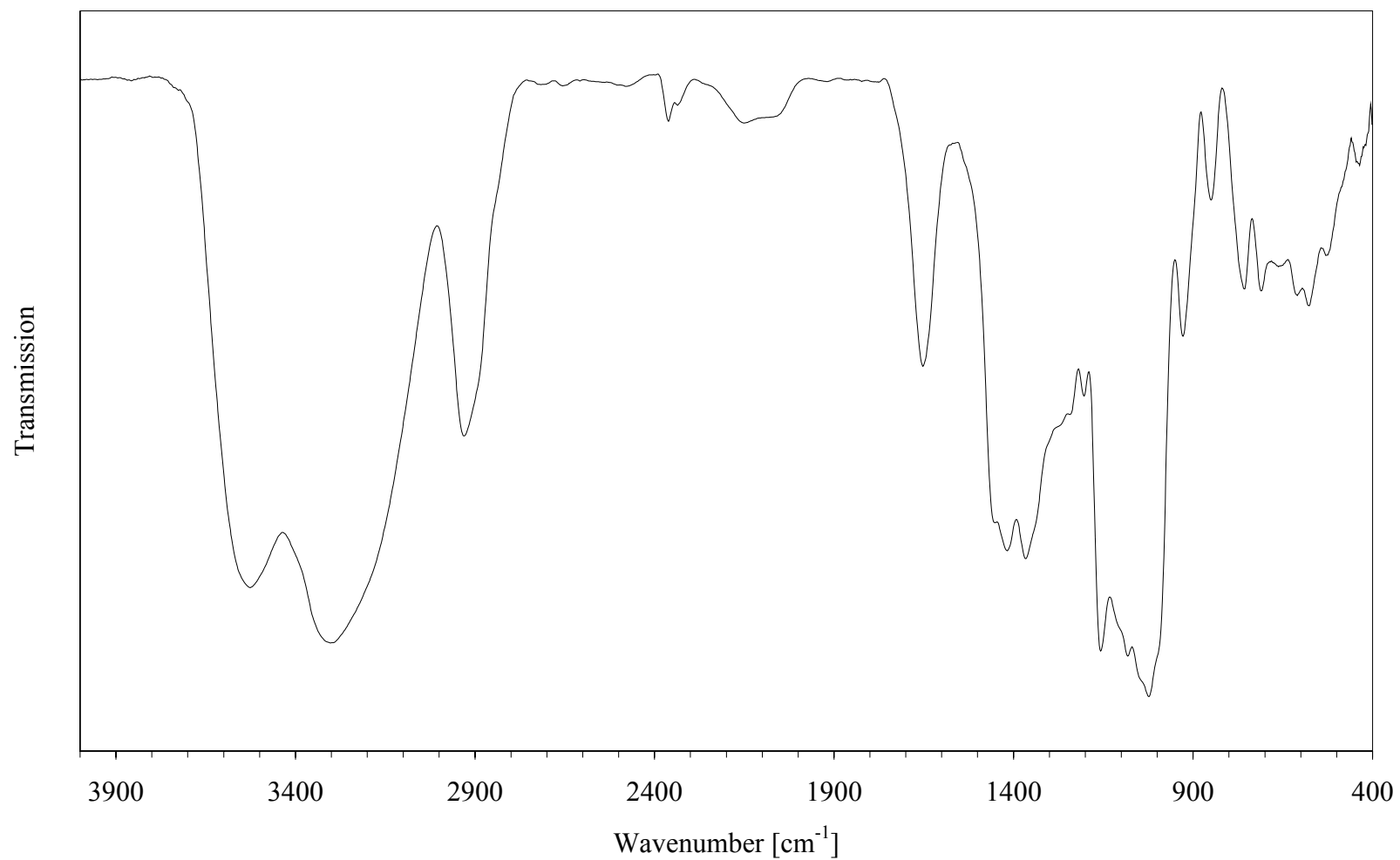
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FTIR

KBr



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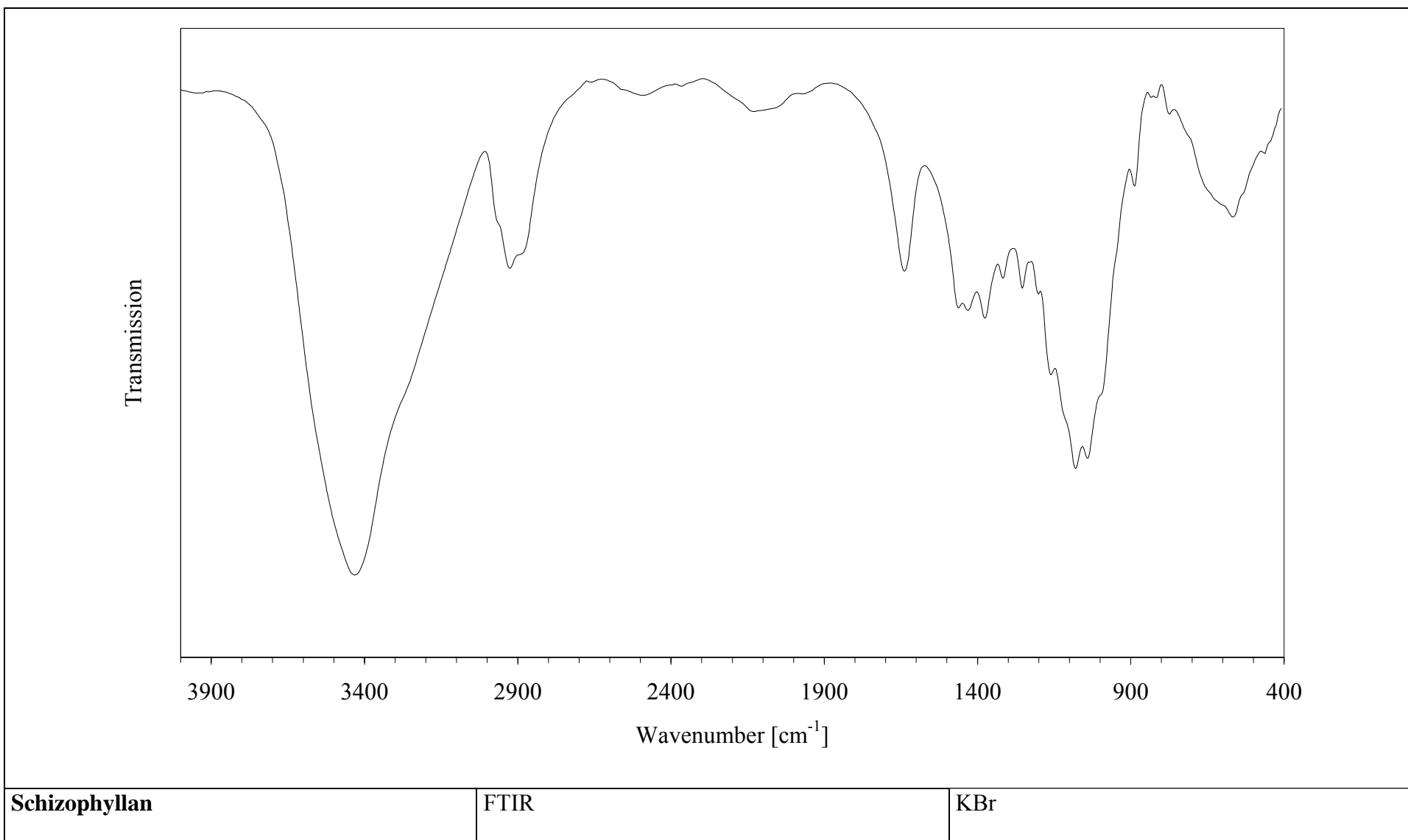


Pullulan

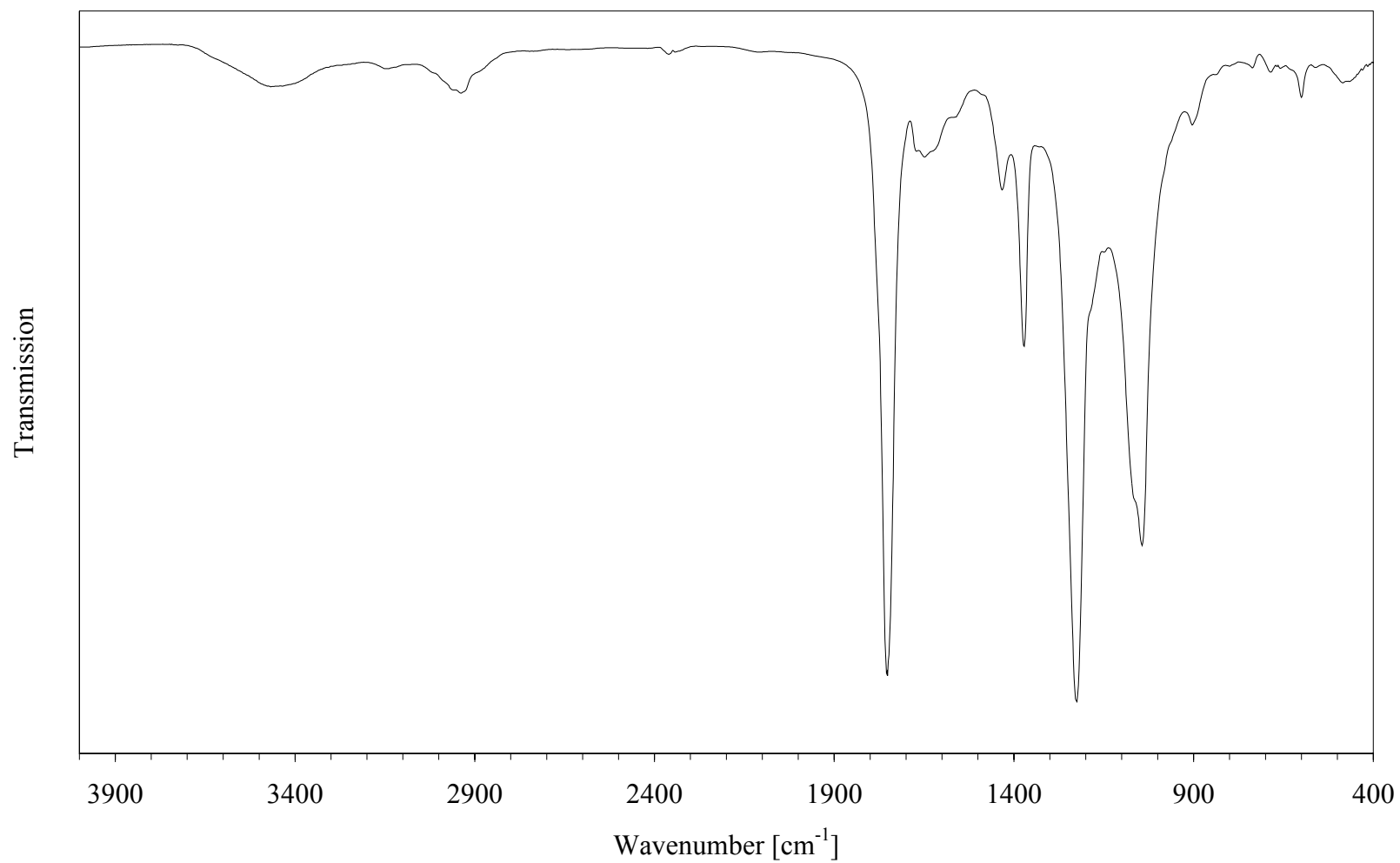
FTIR

KBr

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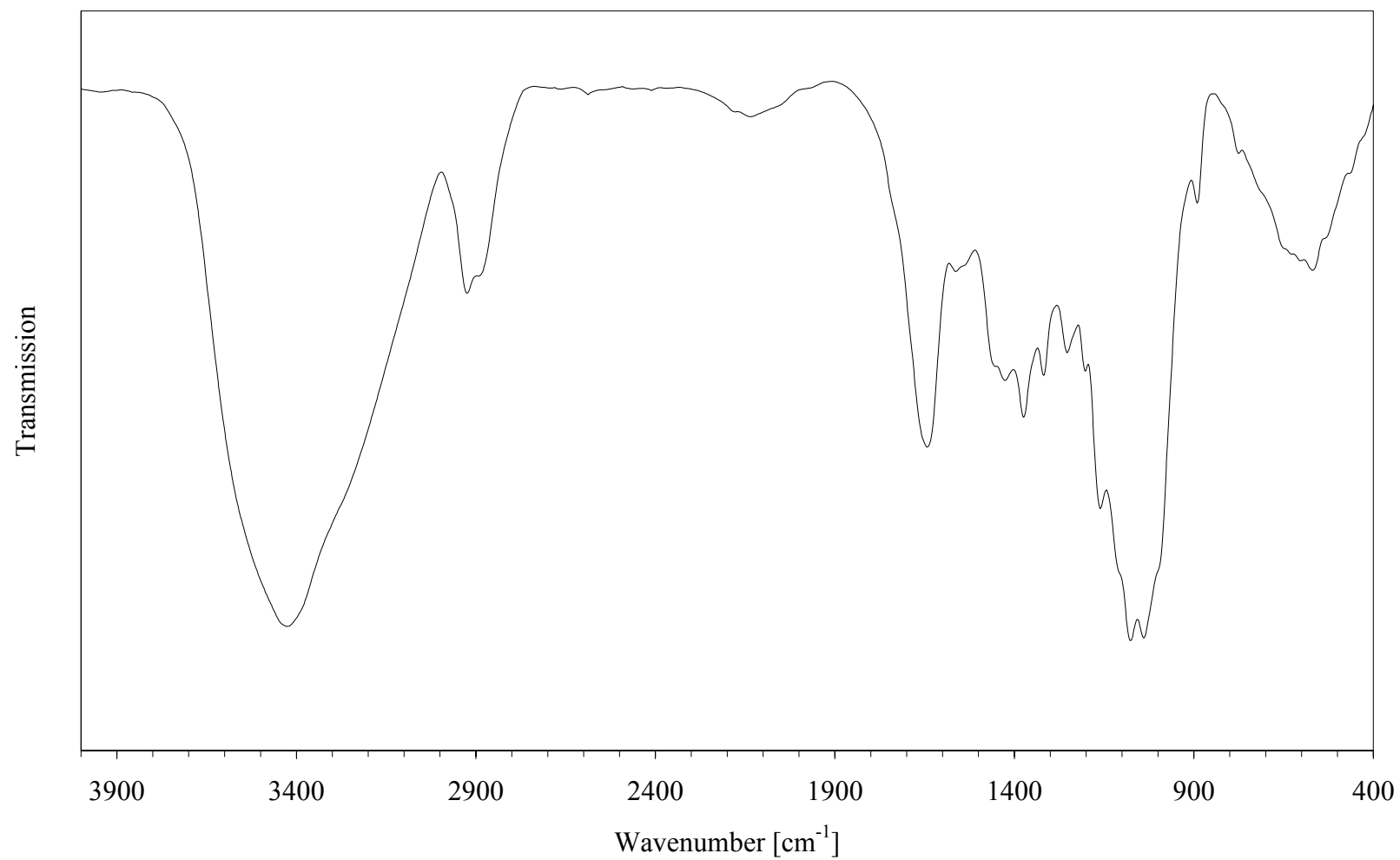
Schizophyllan acetate

DS 2.50

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FTIR

KBr

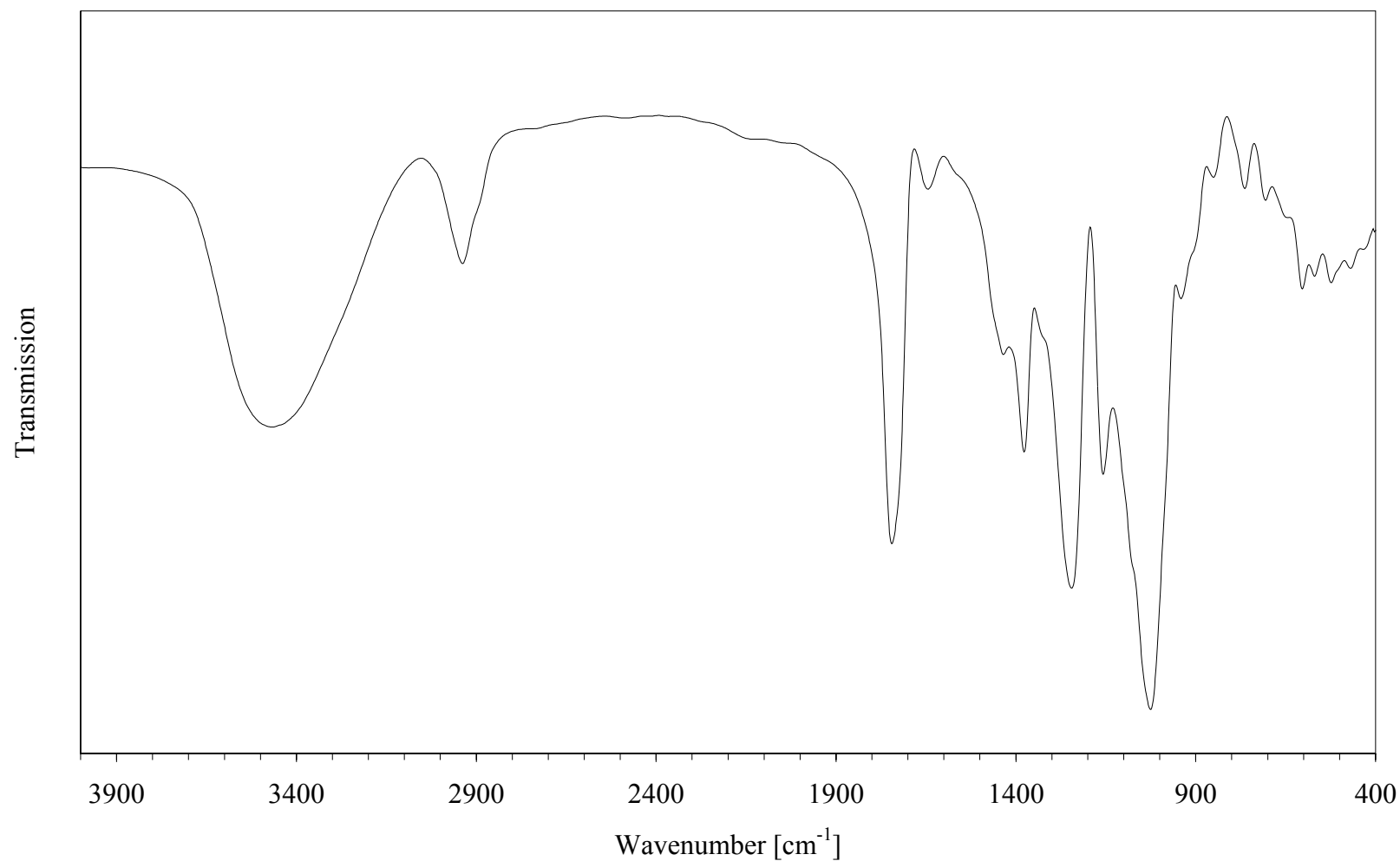


Scleroglucan

FTIR

KBr

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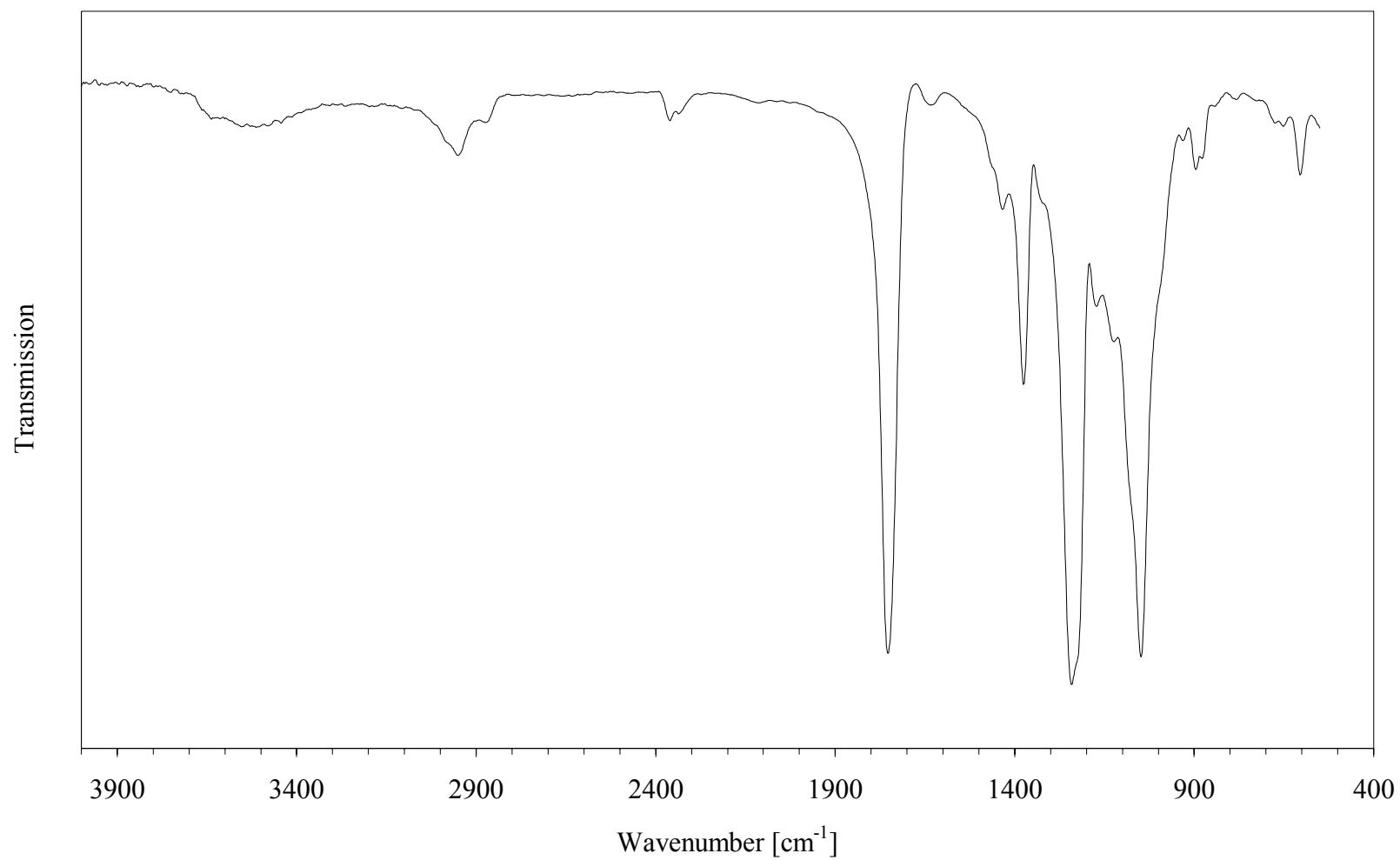


Starch acetate
DS 0.90

FTIR

KBr

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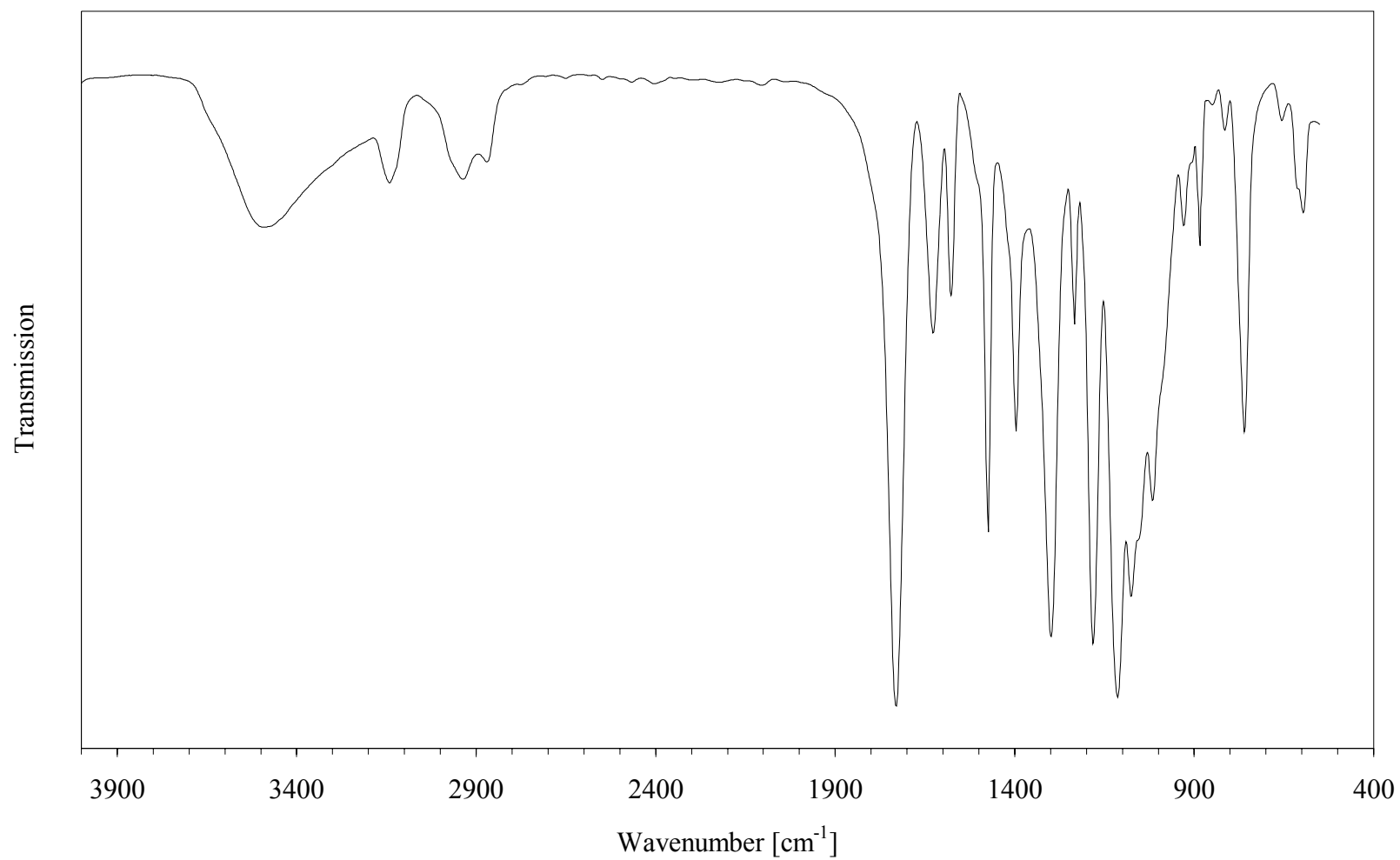
Xylan acetate

DS 2.00

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FTIR

KBr



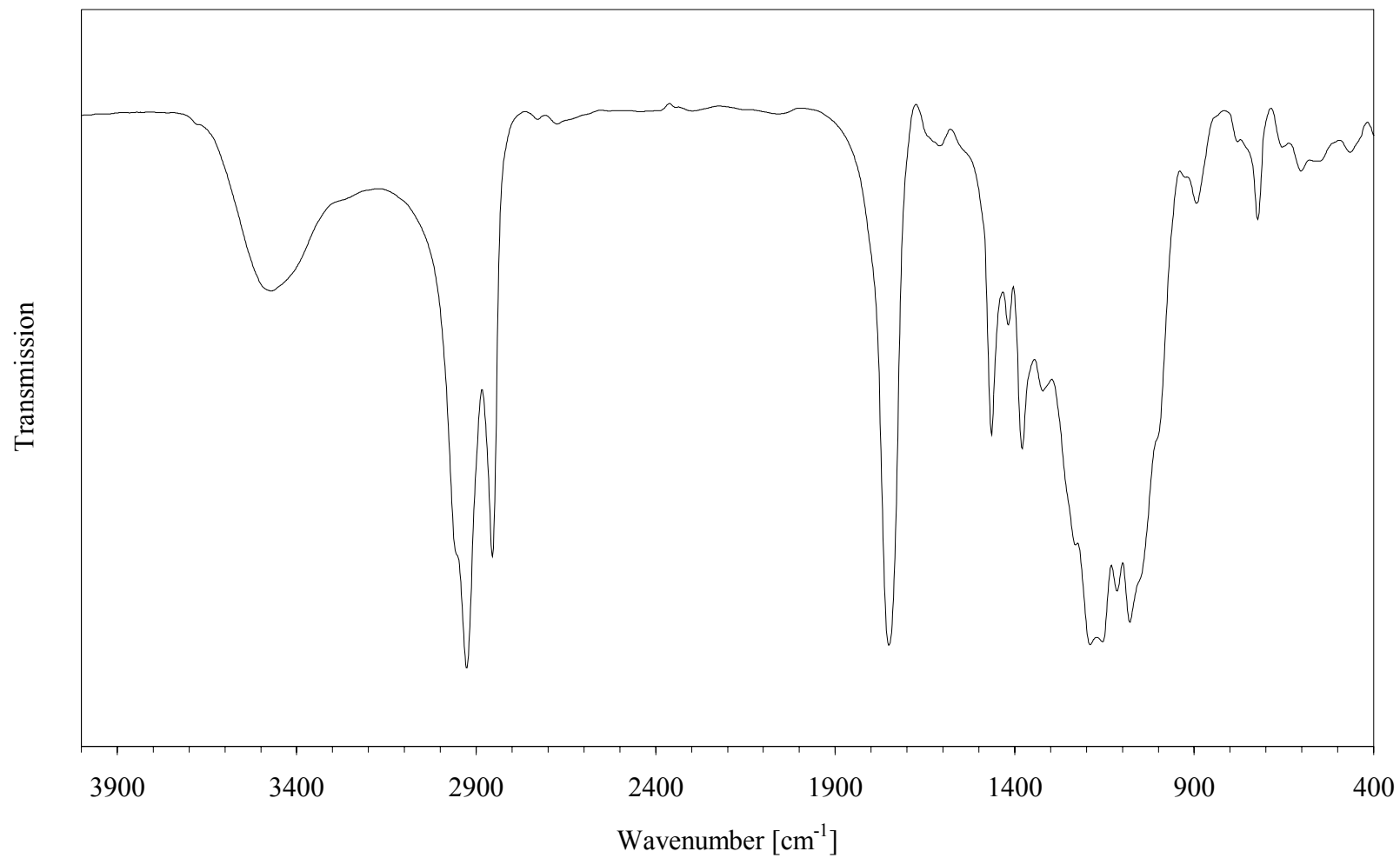
Xylan furoate

DS 0.86

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FTIR

KBr



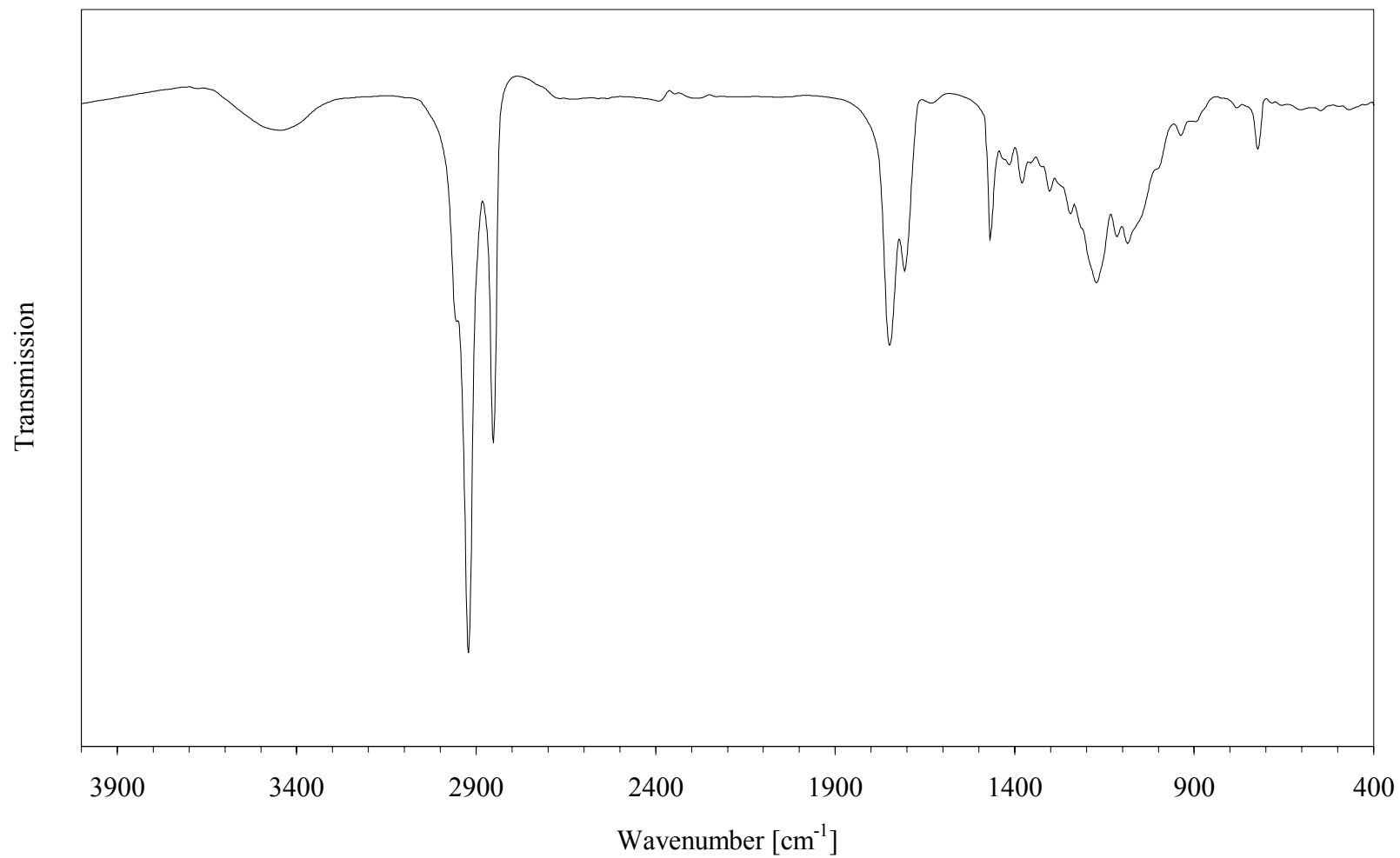
Xylan laurate

DS 1.15

FTIR

KBr

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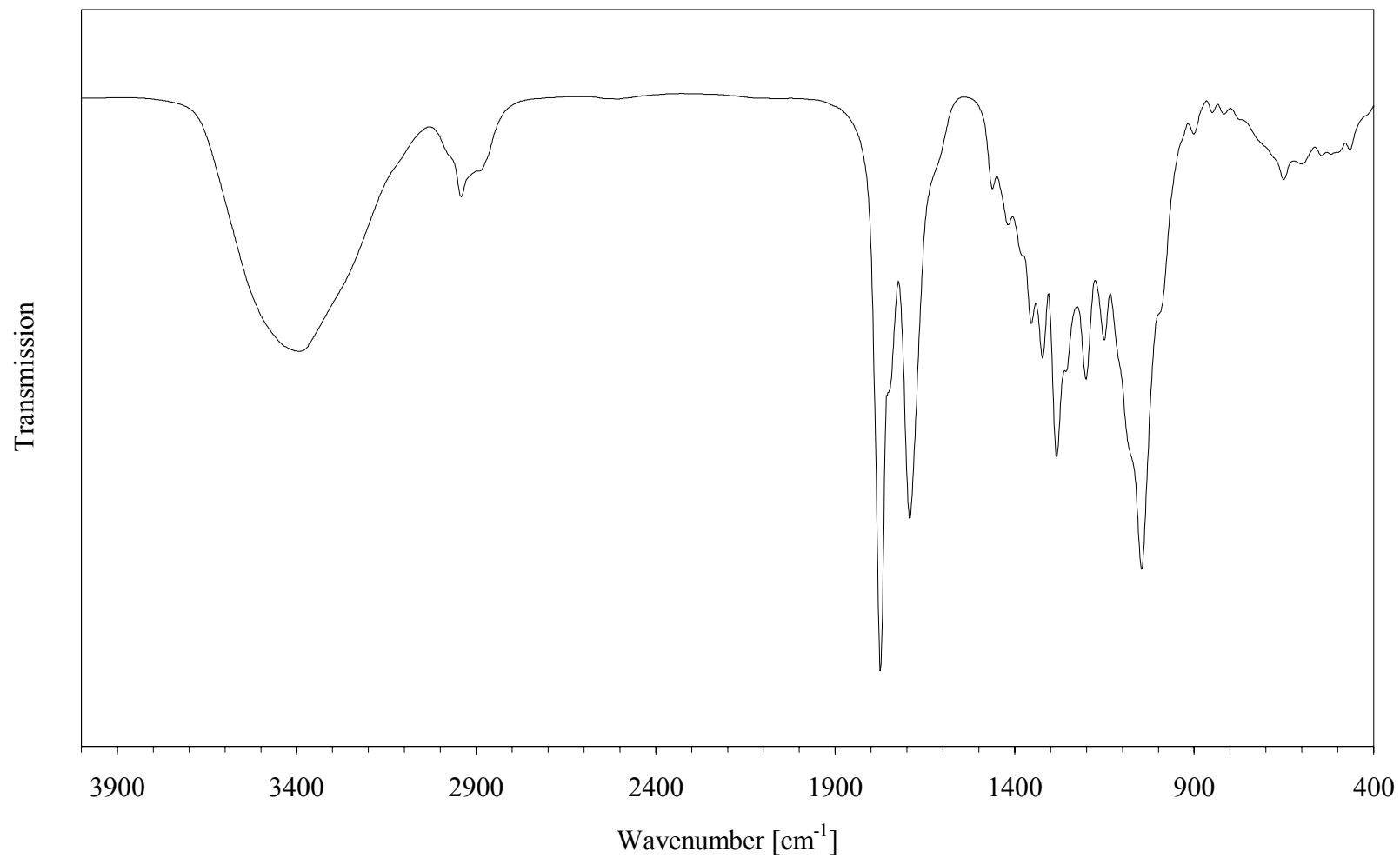
Xylan palmitate

DS 1.21

FTIR

KBr

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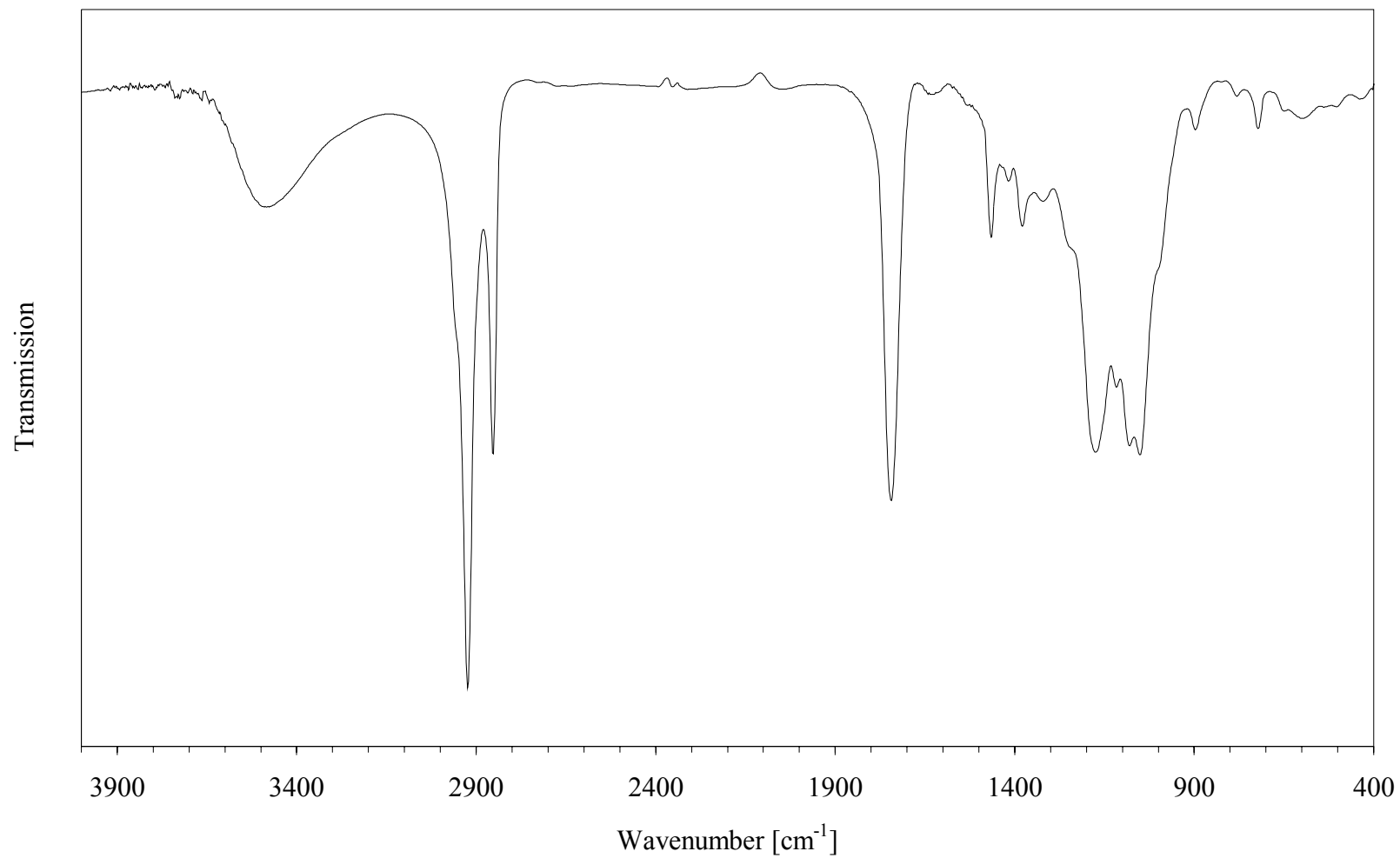
Xylan pyroglutamate

DS 0.78

FTIR

KBr

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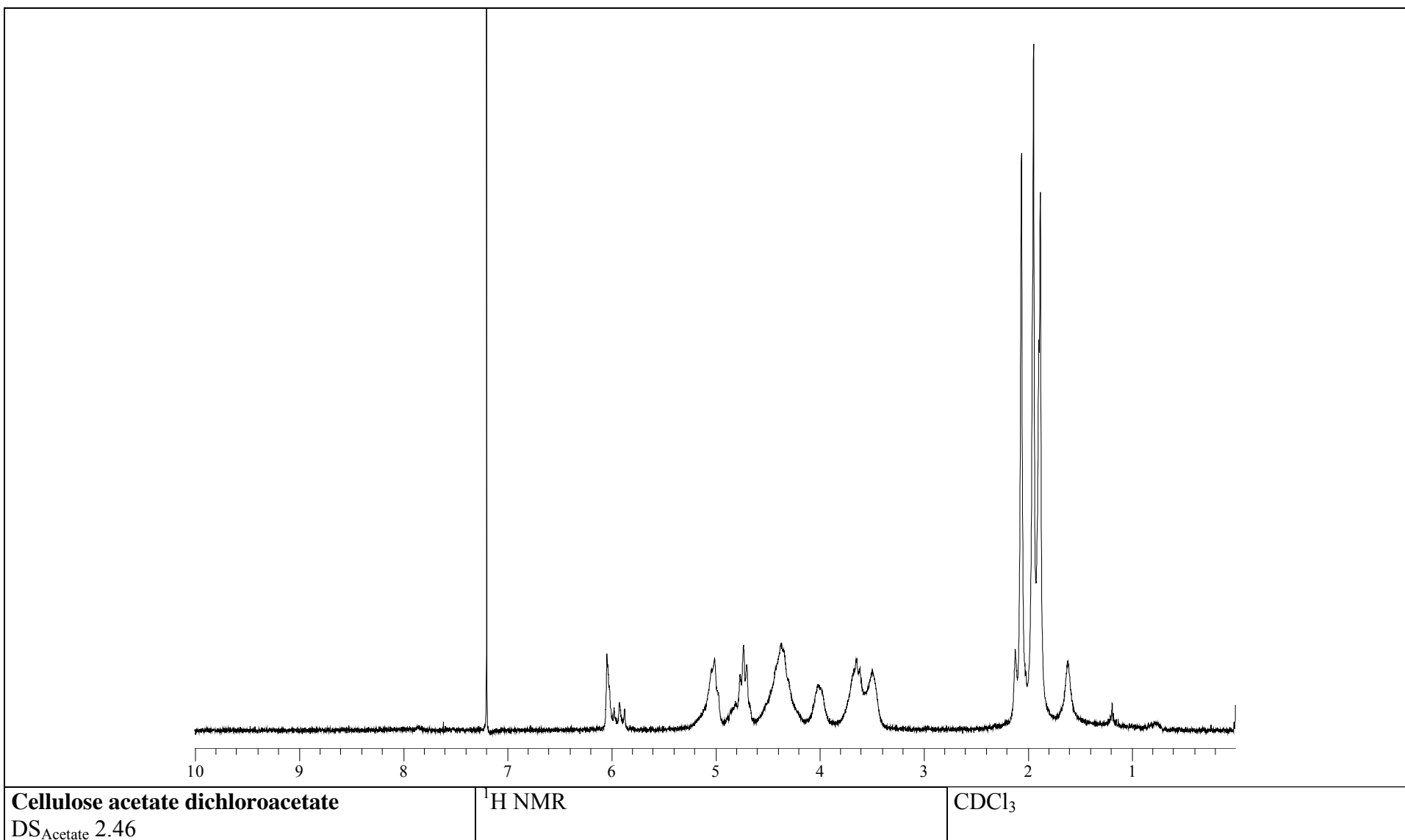
Xylan stearate
DS 0.35

FTIR

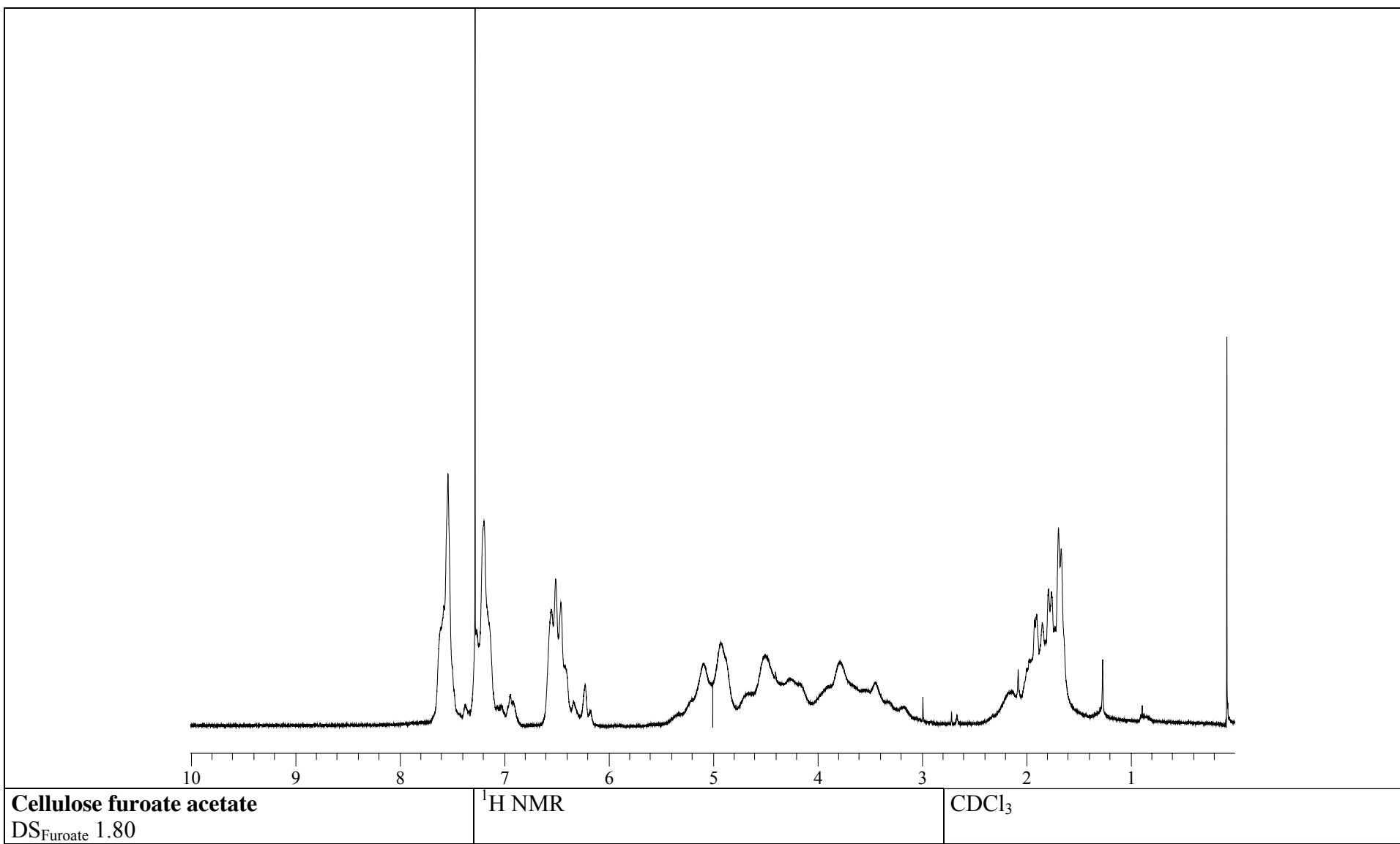
KBr

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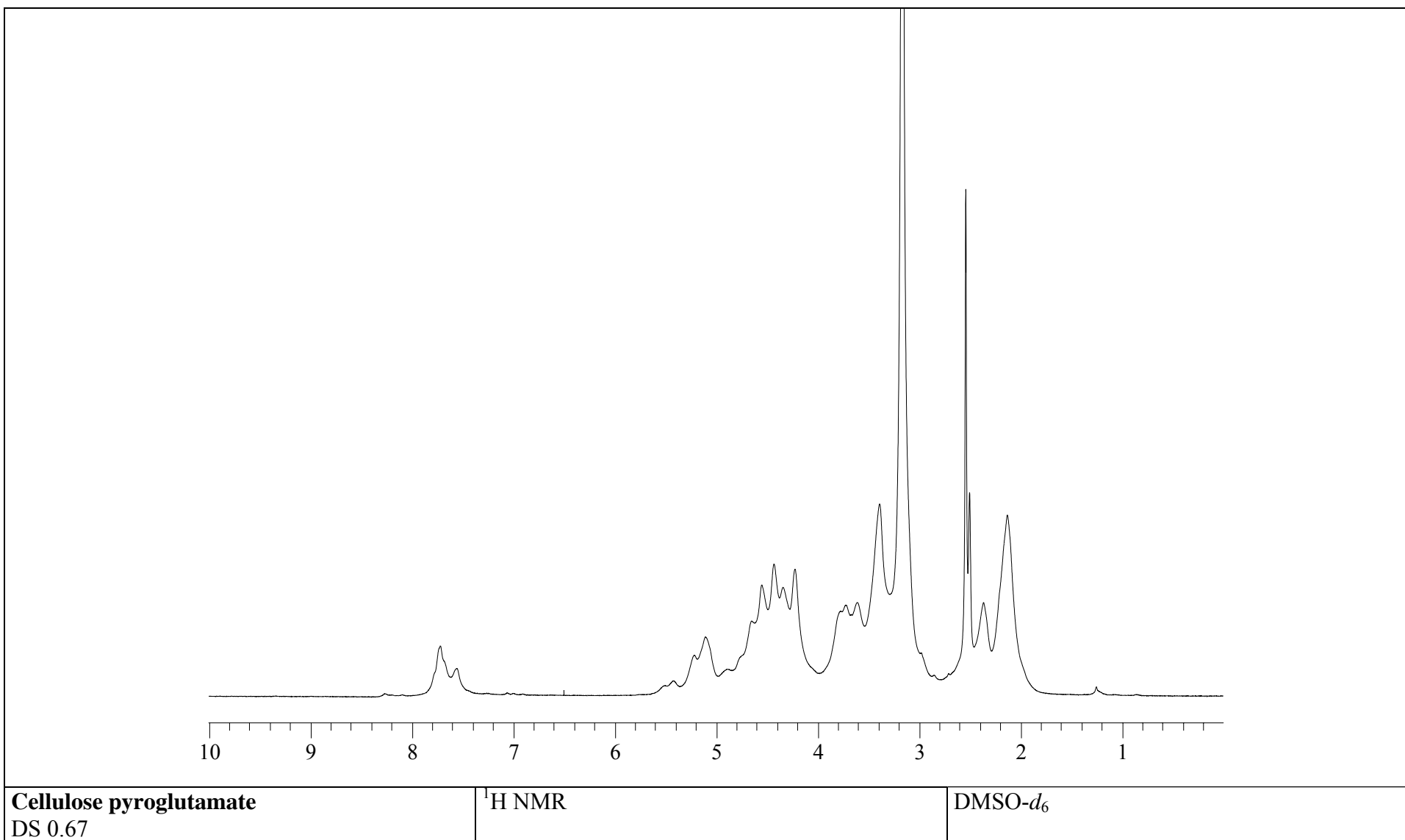
^1H NMR Spectra



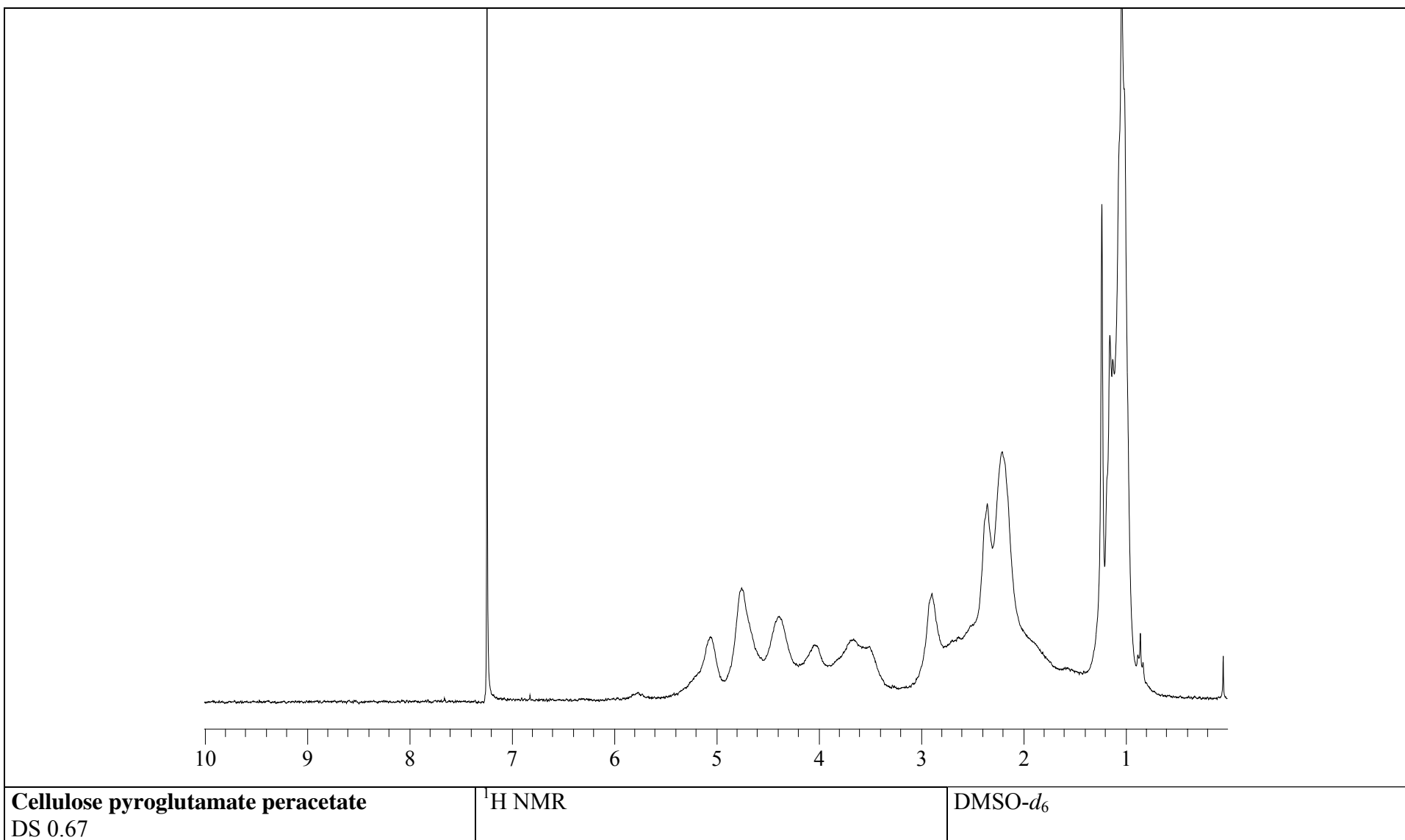
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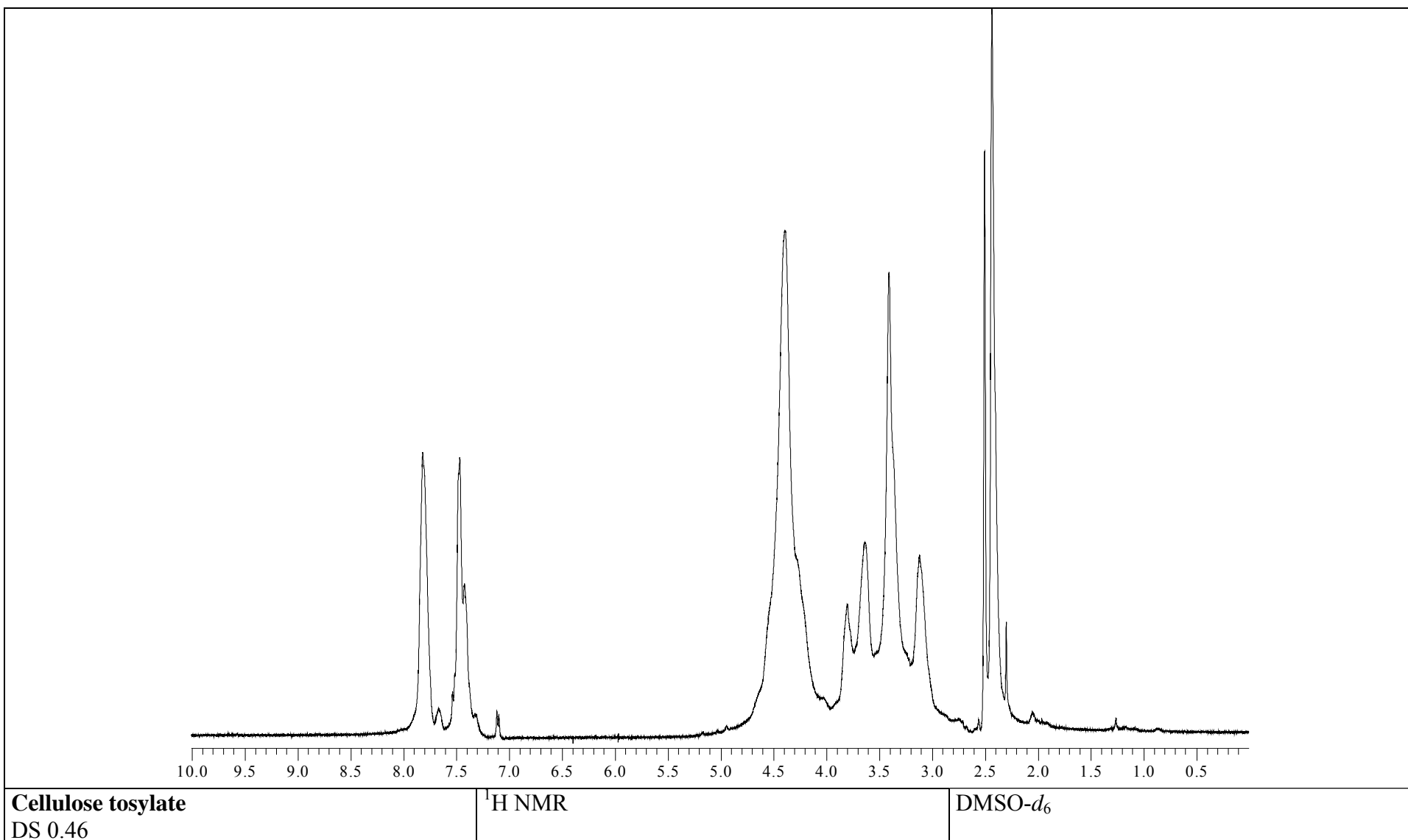
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Back ↑



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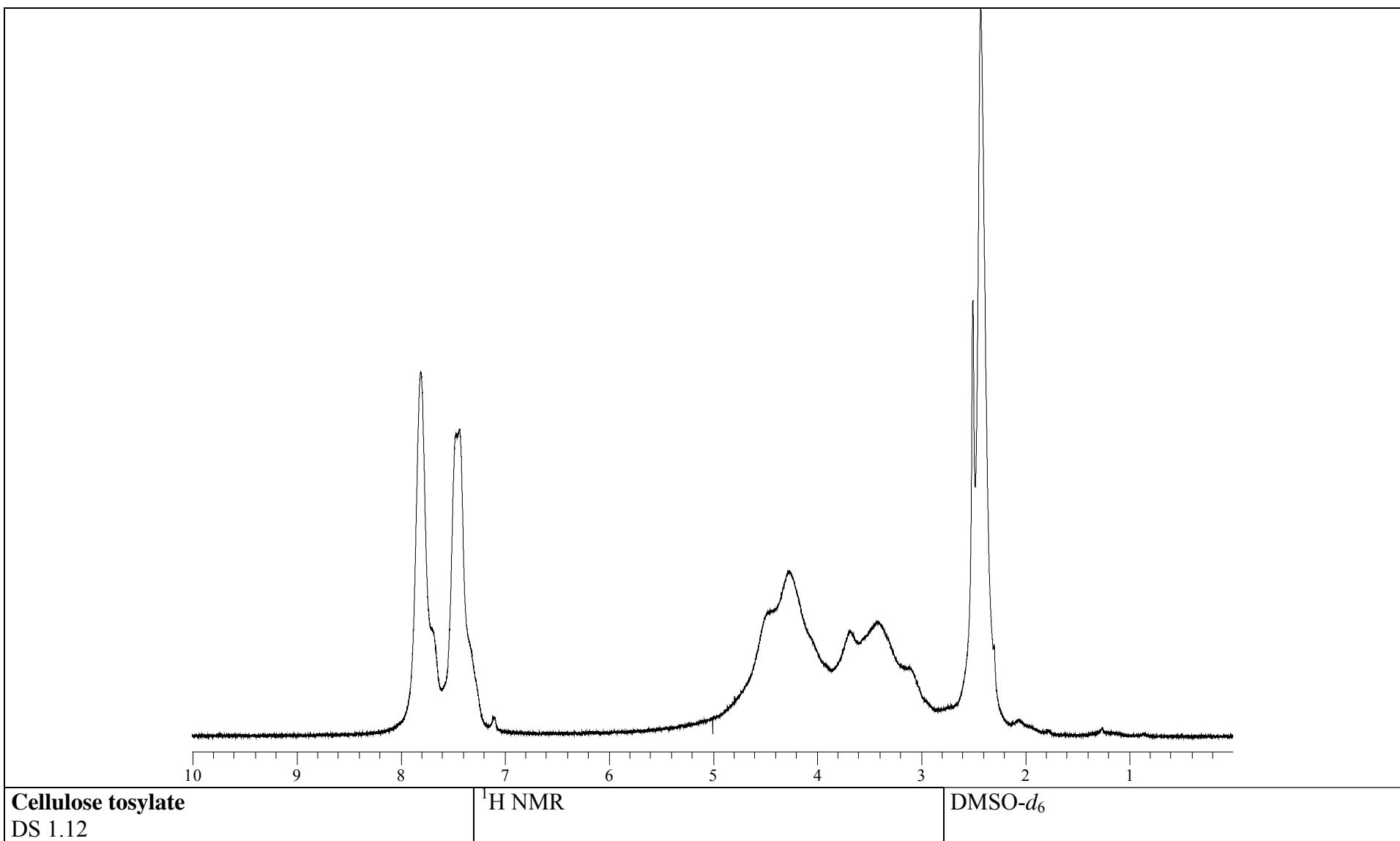
Cellulose tosylate

DS 0.46

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¹H NMR

DMSO-*d*₆

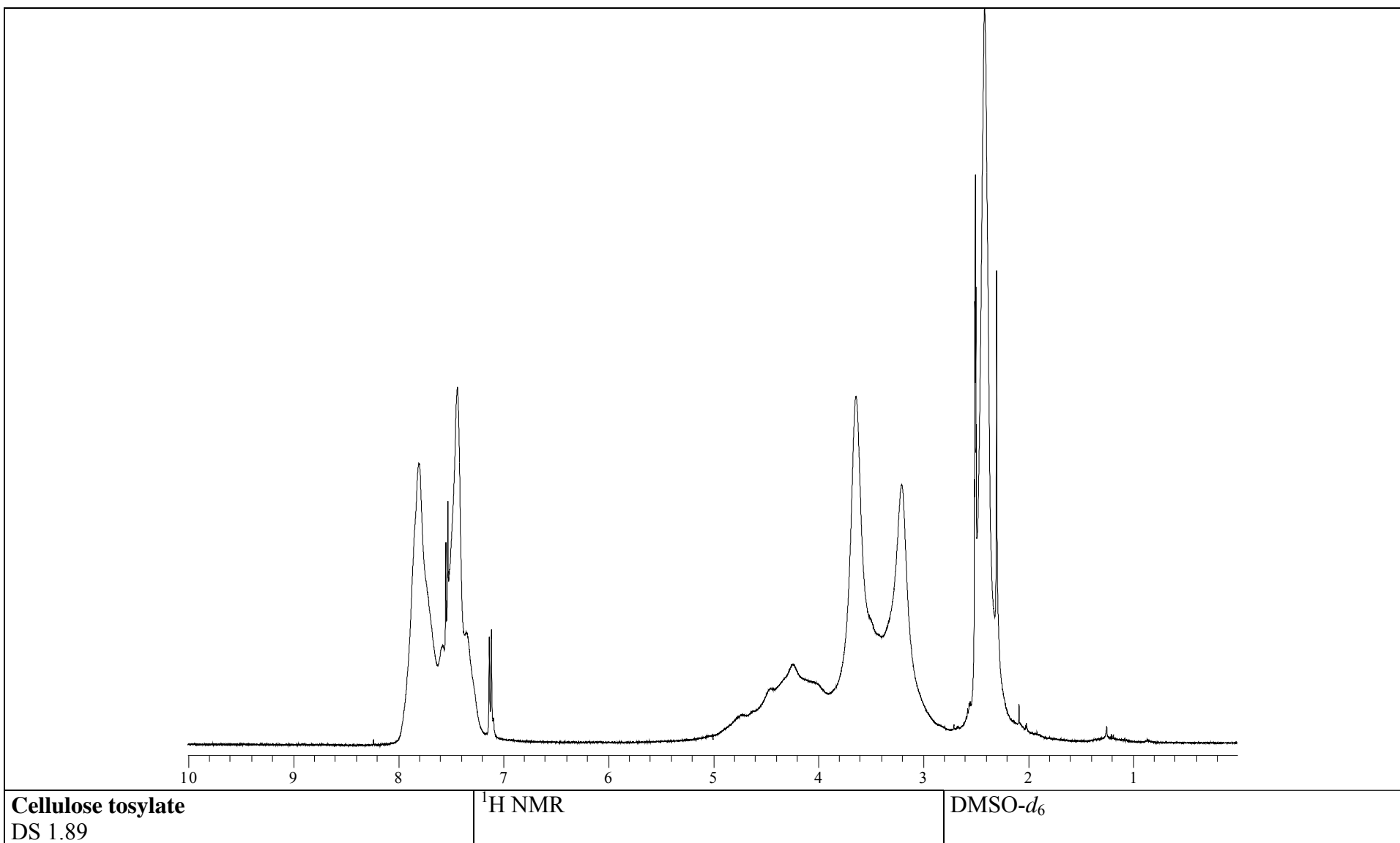


Cellulose tosylate
DS 1.12

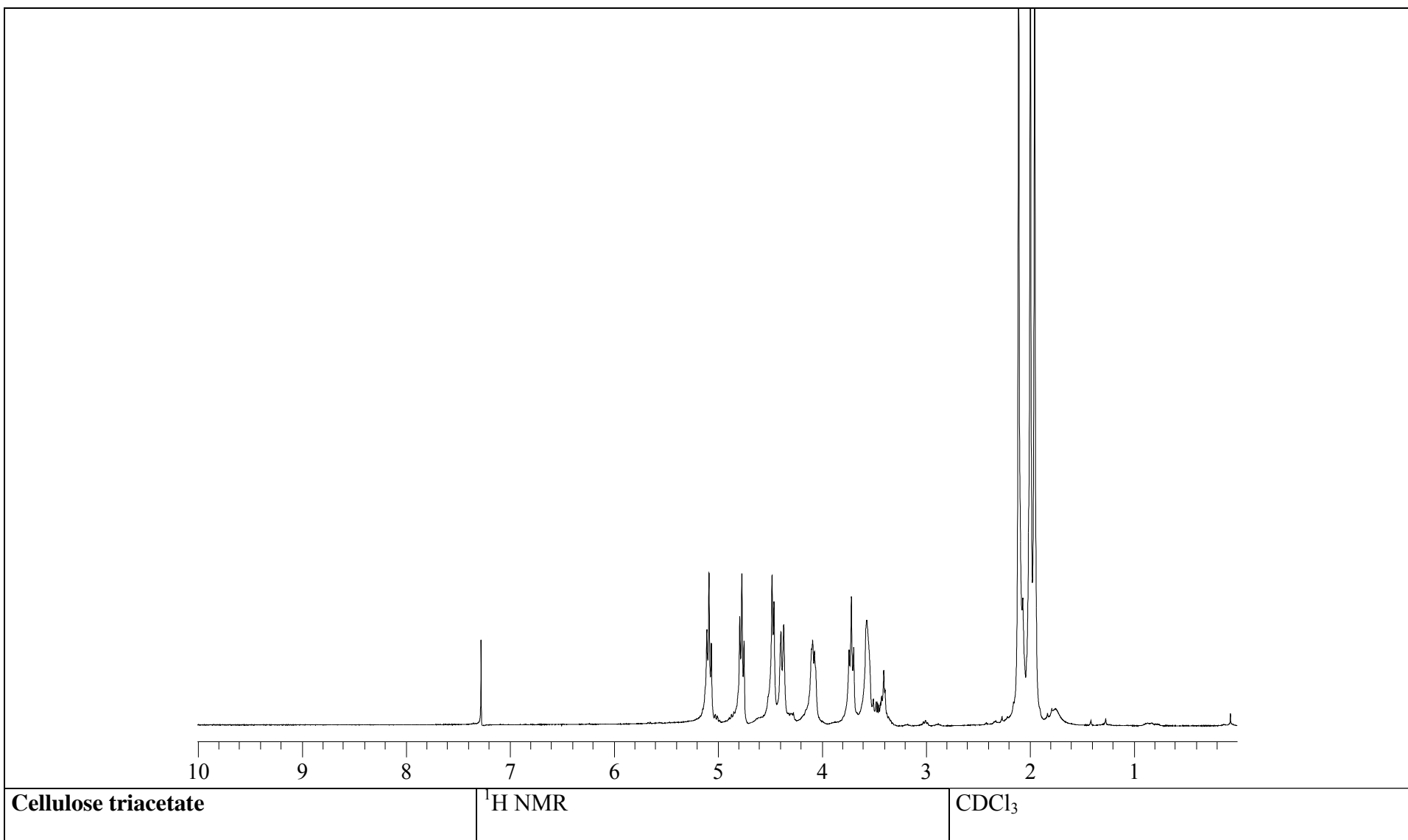
¹H NMR

DMSO-*d*₆

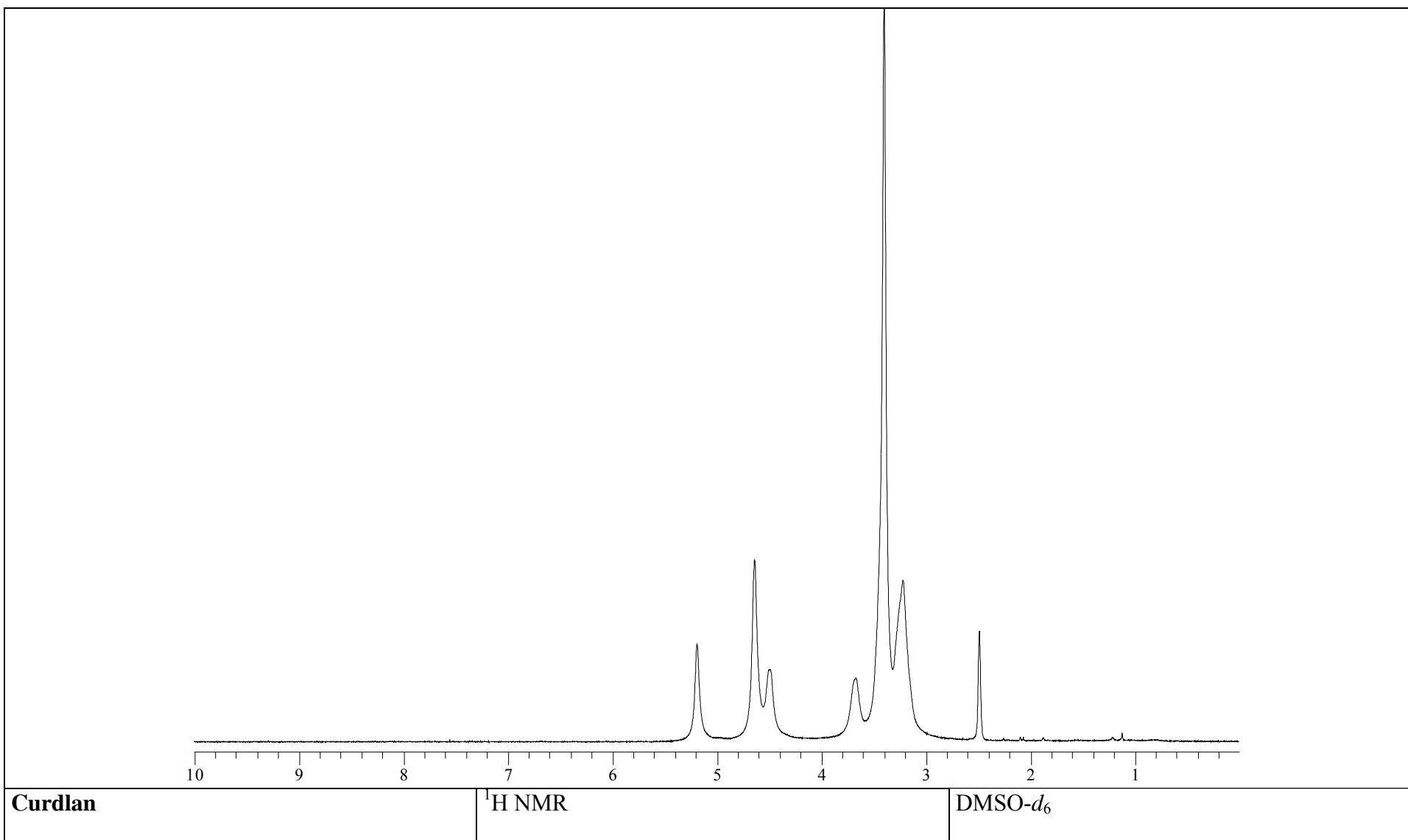
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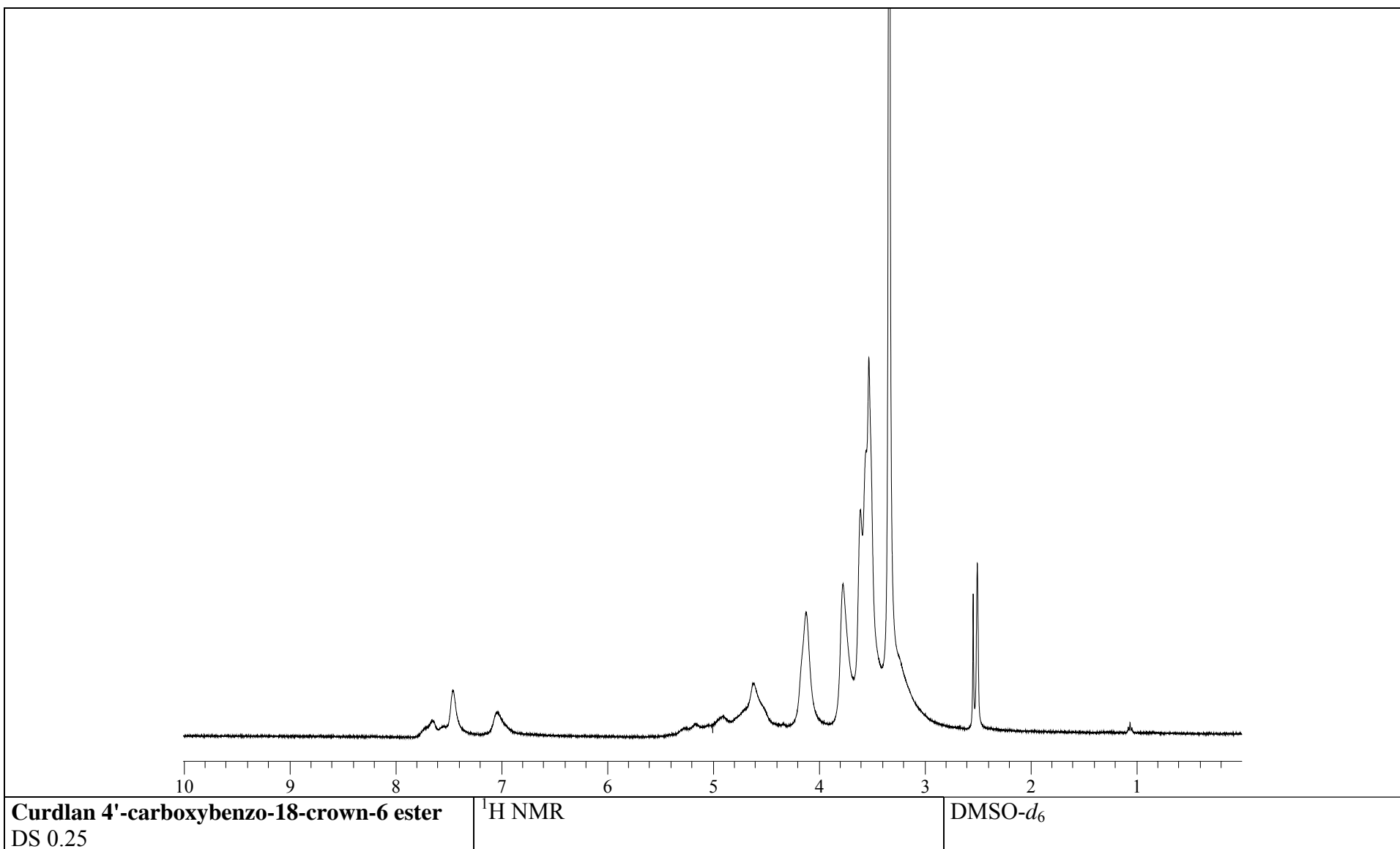
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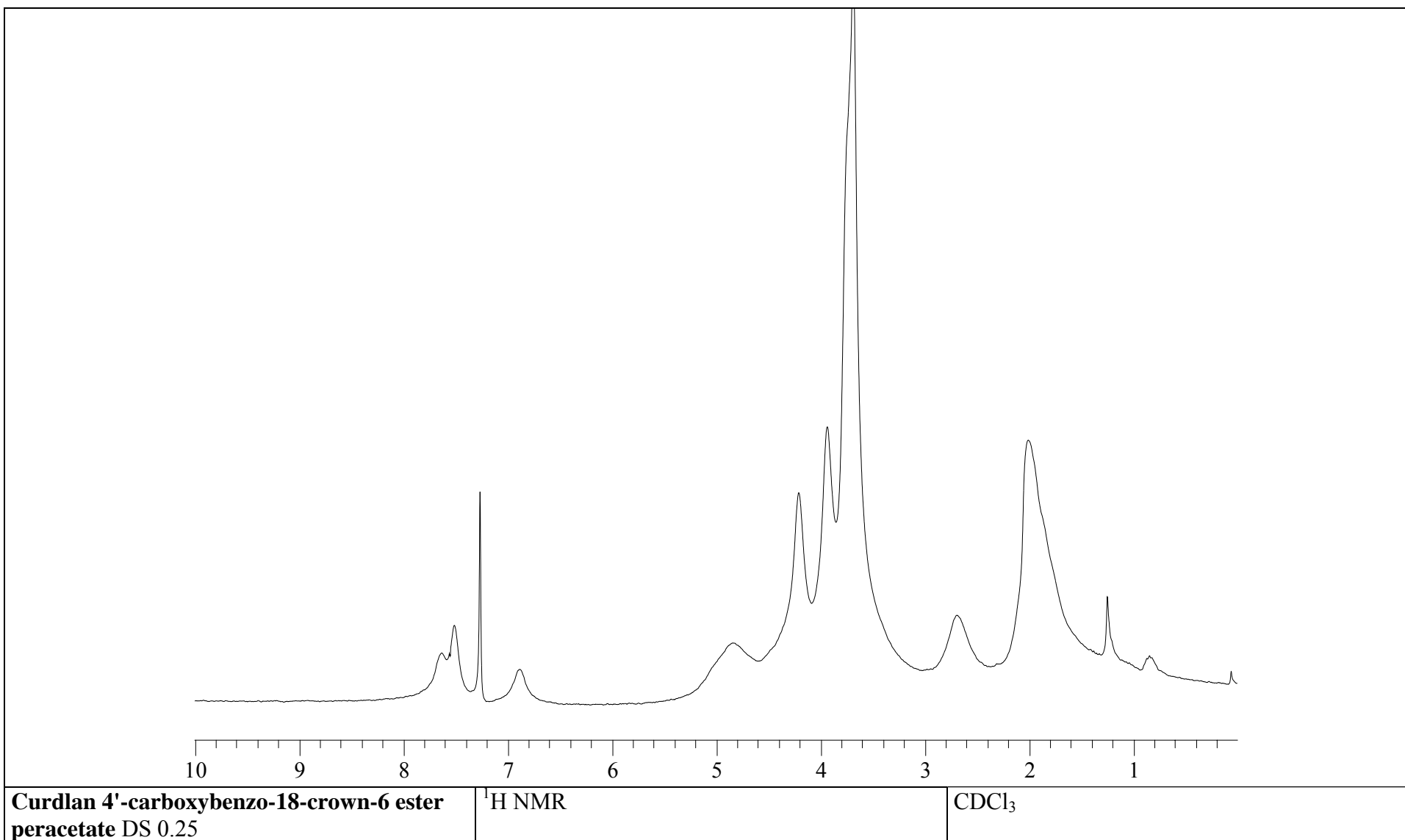


Curdlan 4'-carboxybenzo-18-crown-6 ester
DS 0.25

¹H NMR

DMSO-*d*₆

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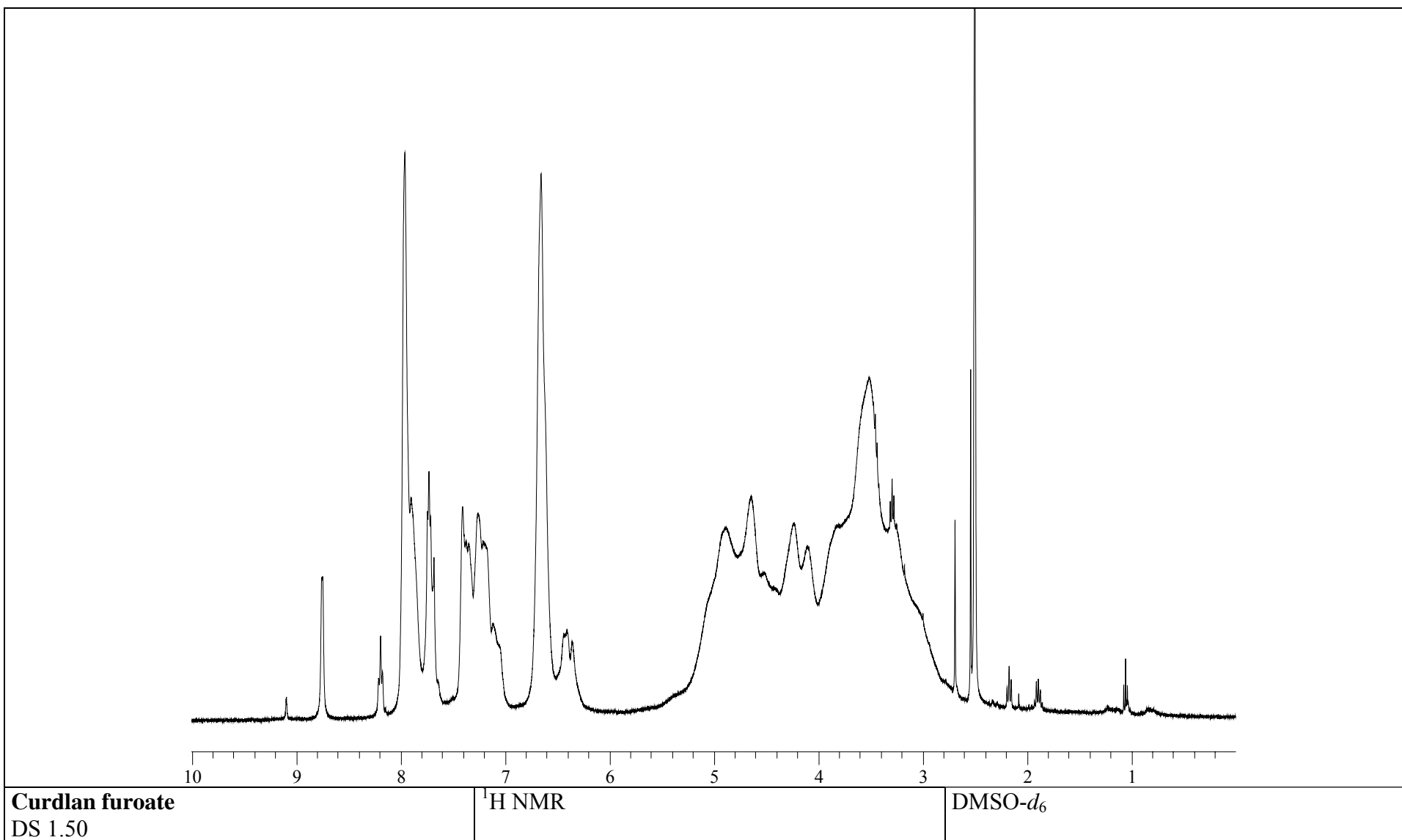


**Curdlan 4'-carboxybenzo-18-crown-6 ester
peracetate DS 0.25**

¹H NMR

CDCl₃

Back ↑

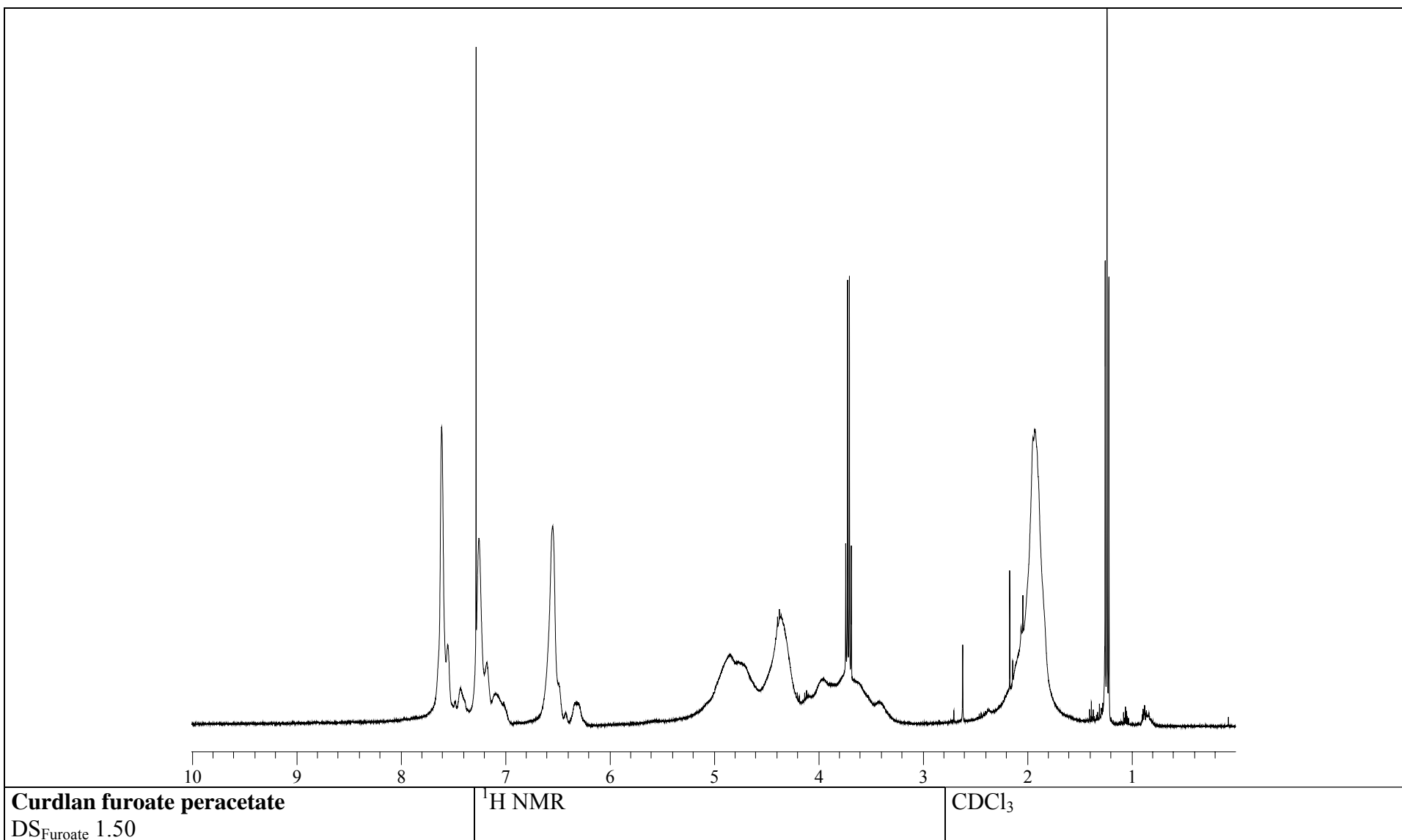


Curdlan furoate
DS 1.50

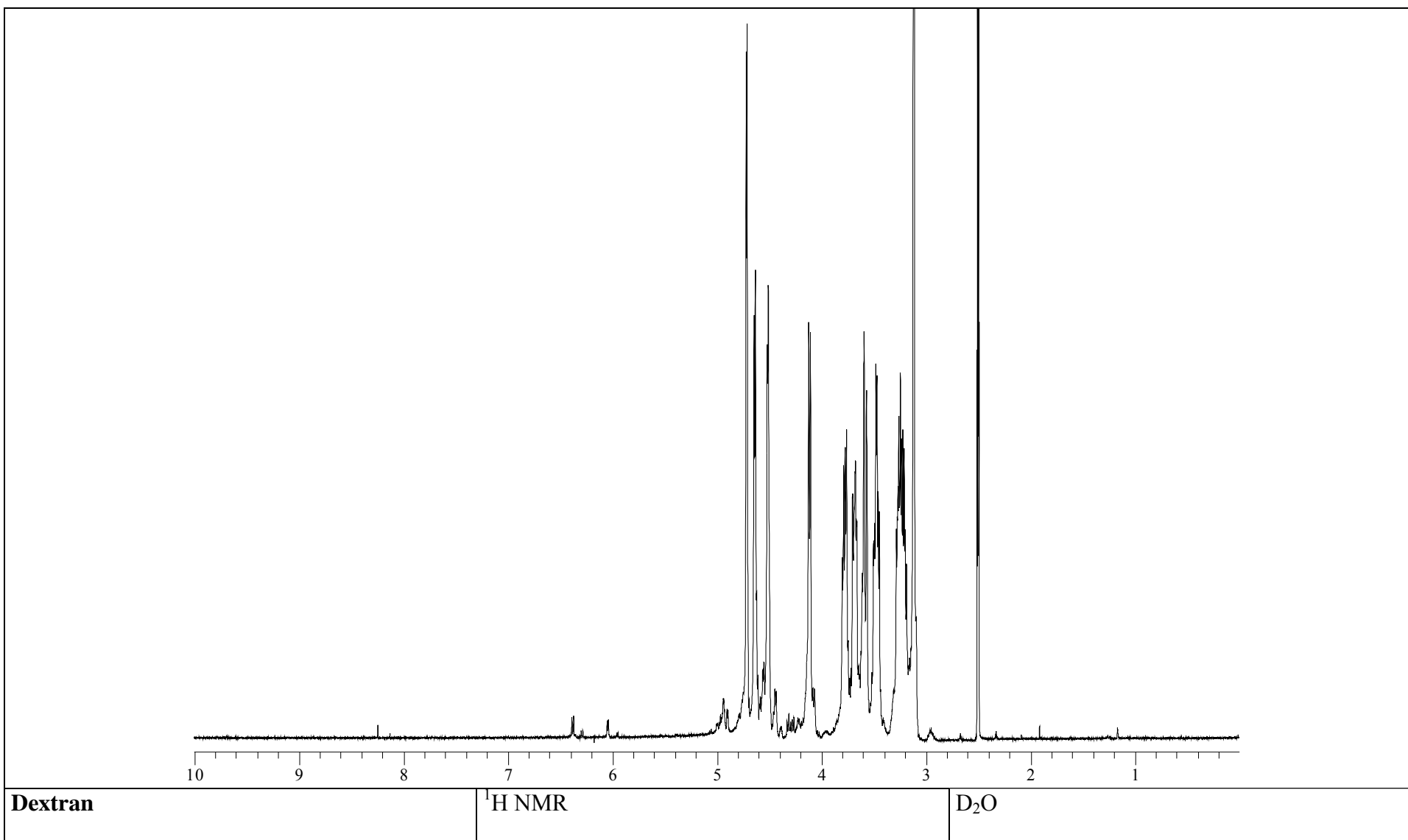
¹H NMR

DMSO-*d*₆

Back ↑



Back ↑

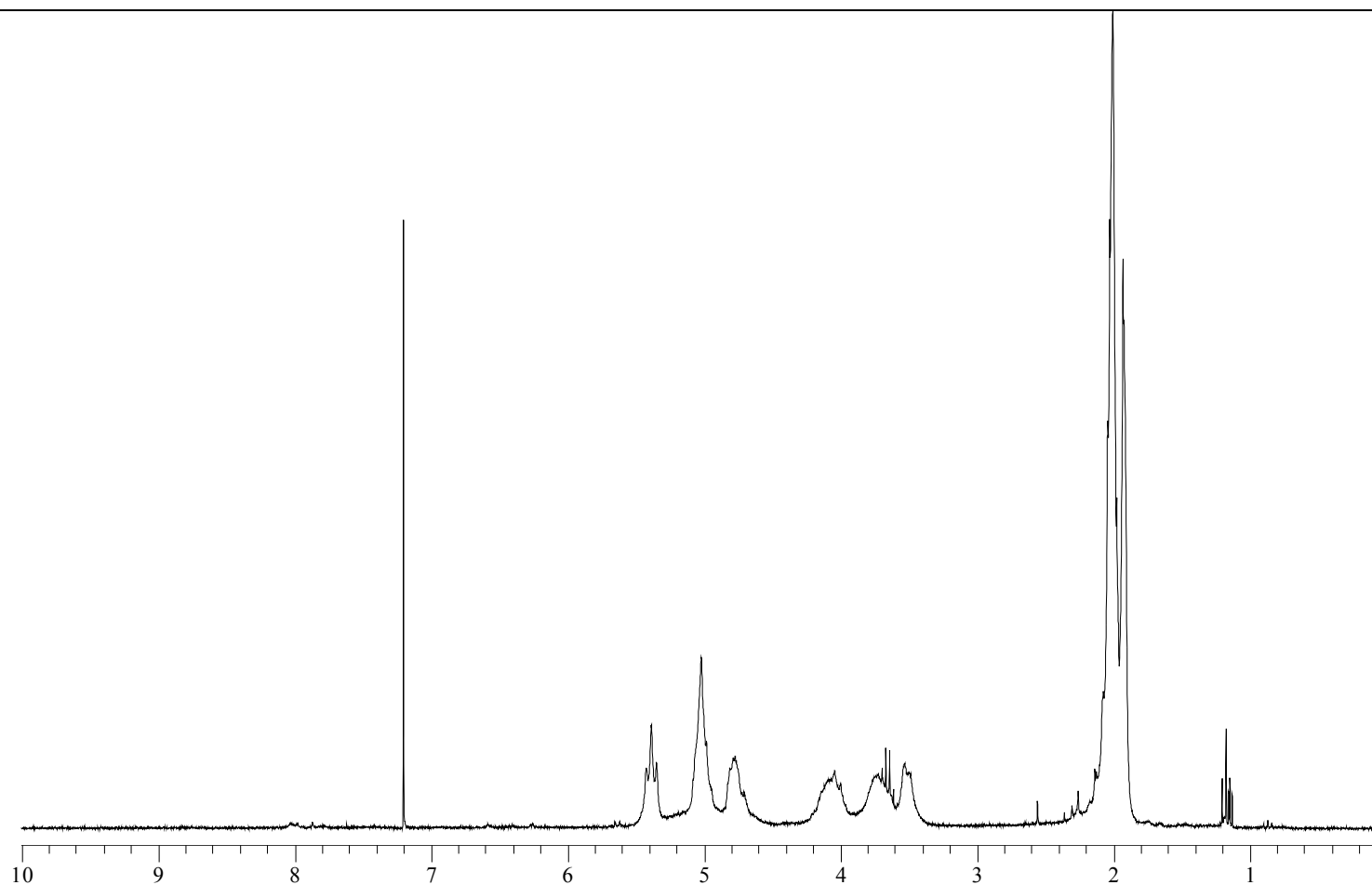


Dextran

¹H NMR

D₂O

Back ↑

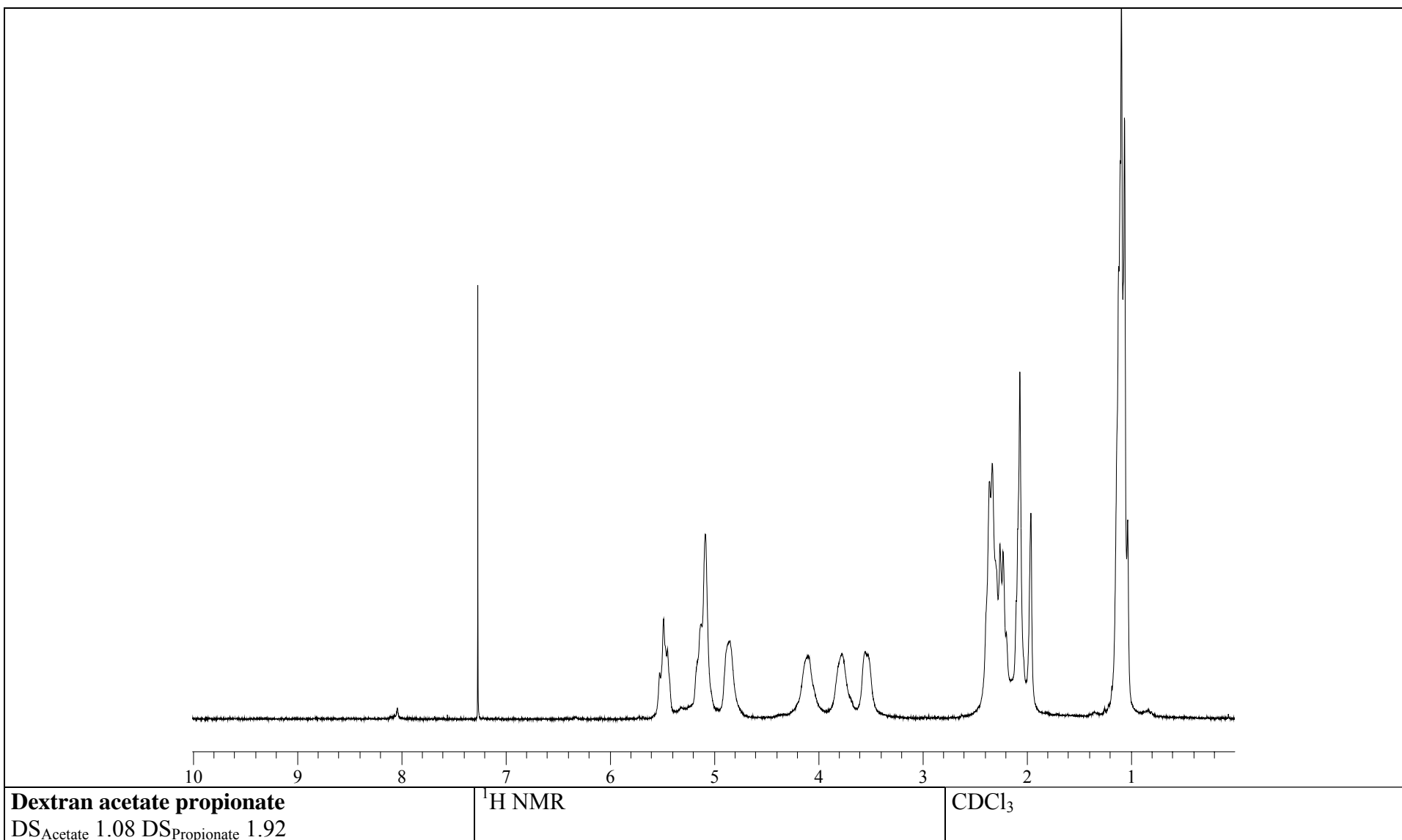


Dextran triacetate

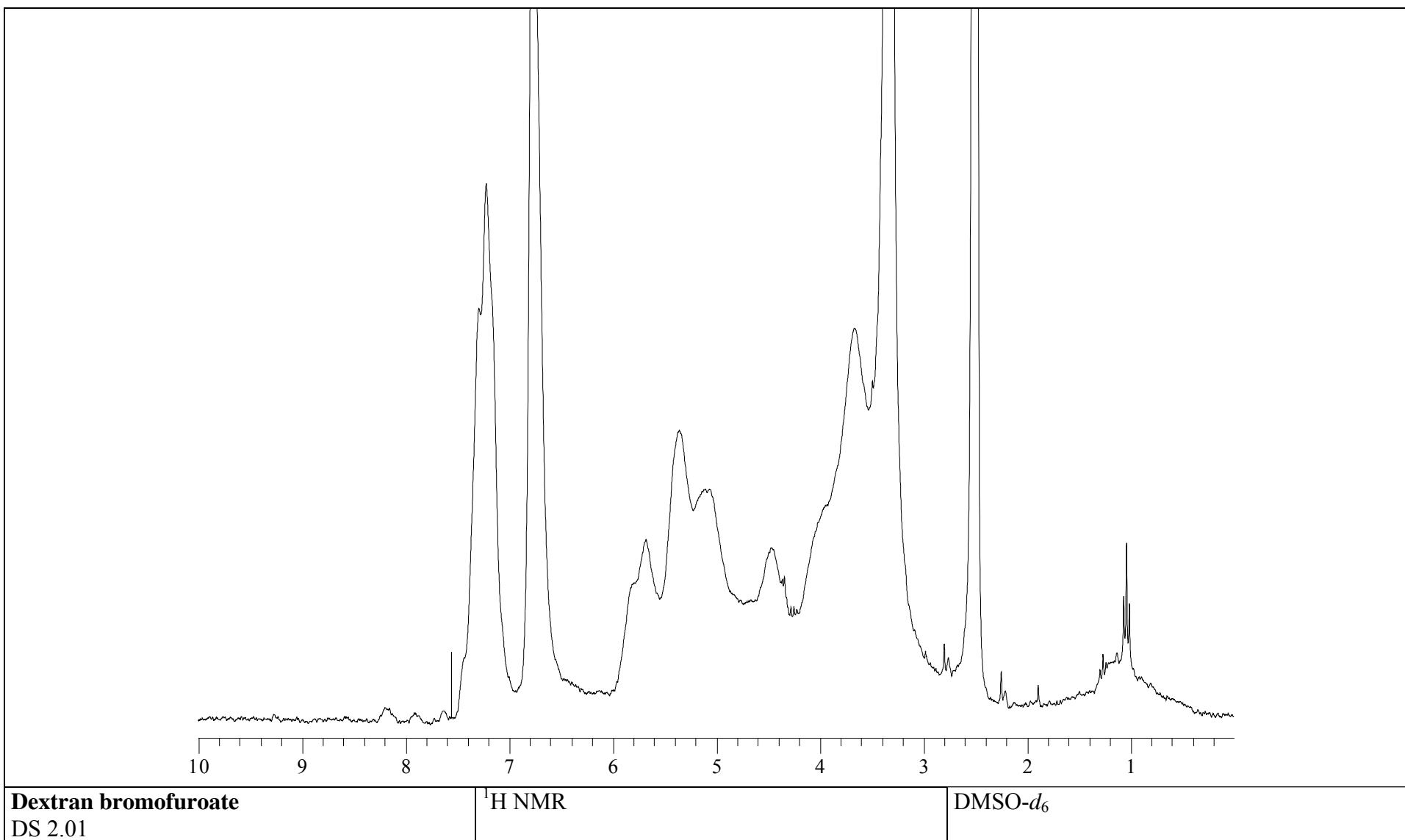
¹H NMR

DMSO-*d*₆

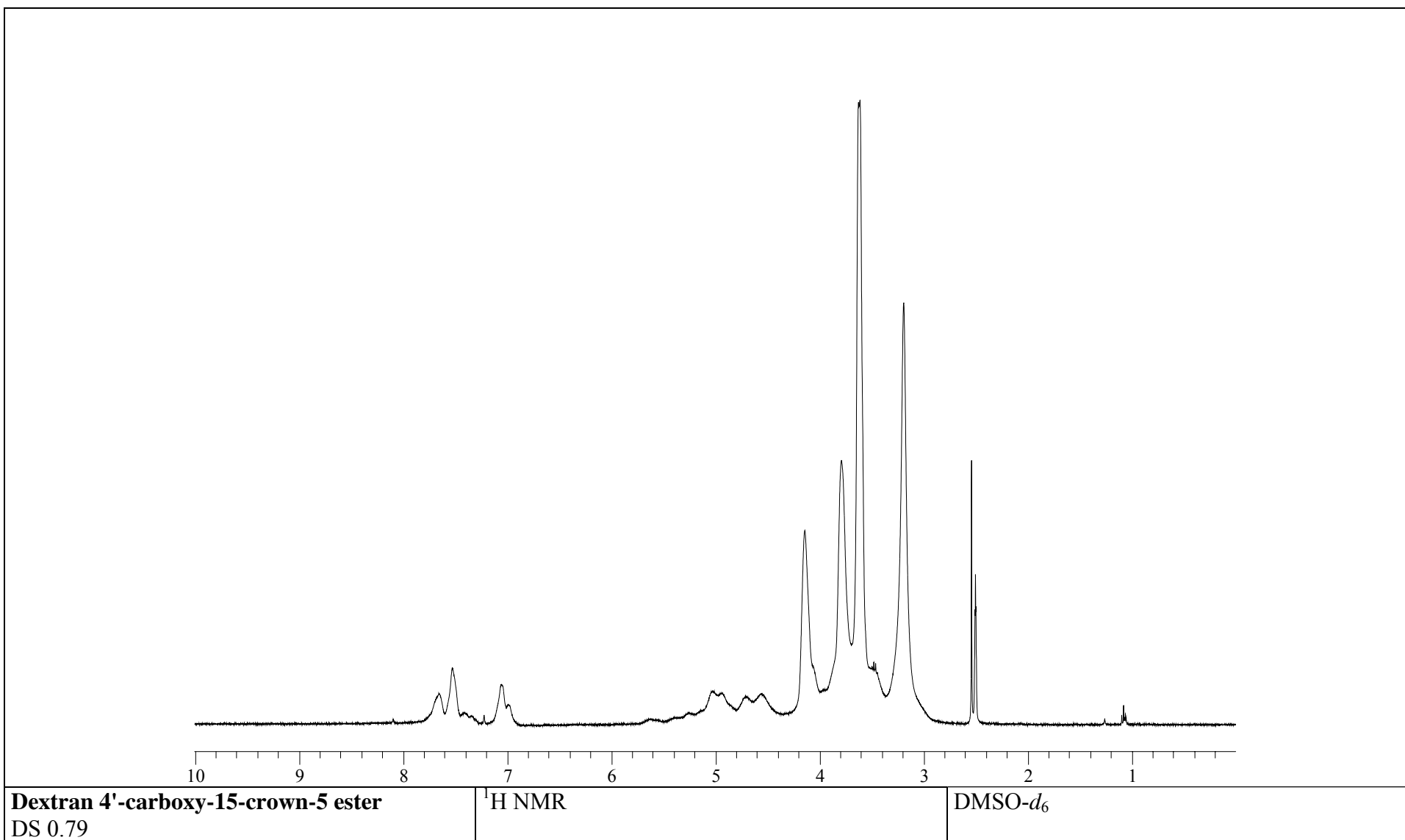
Back ↑



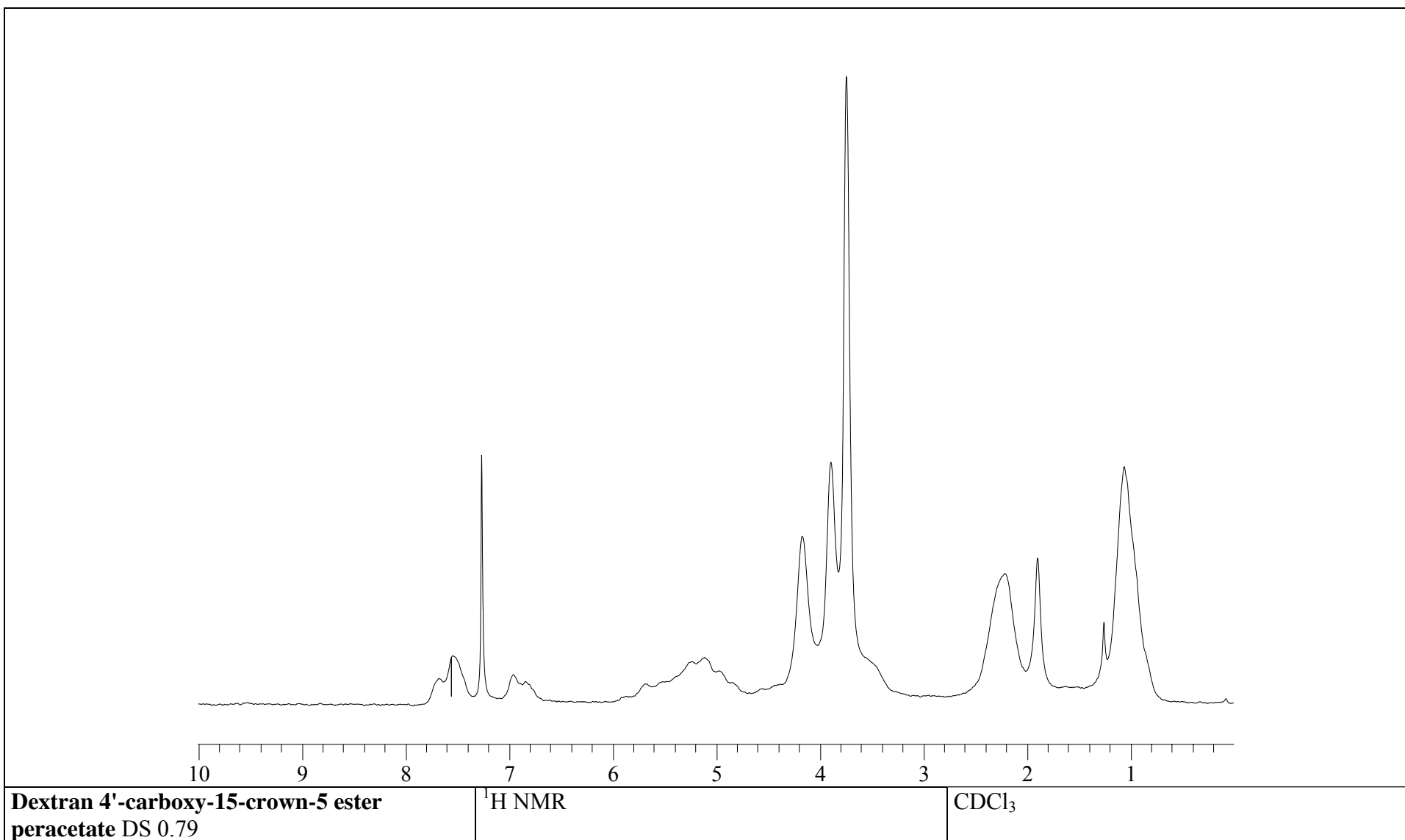
Back ↑



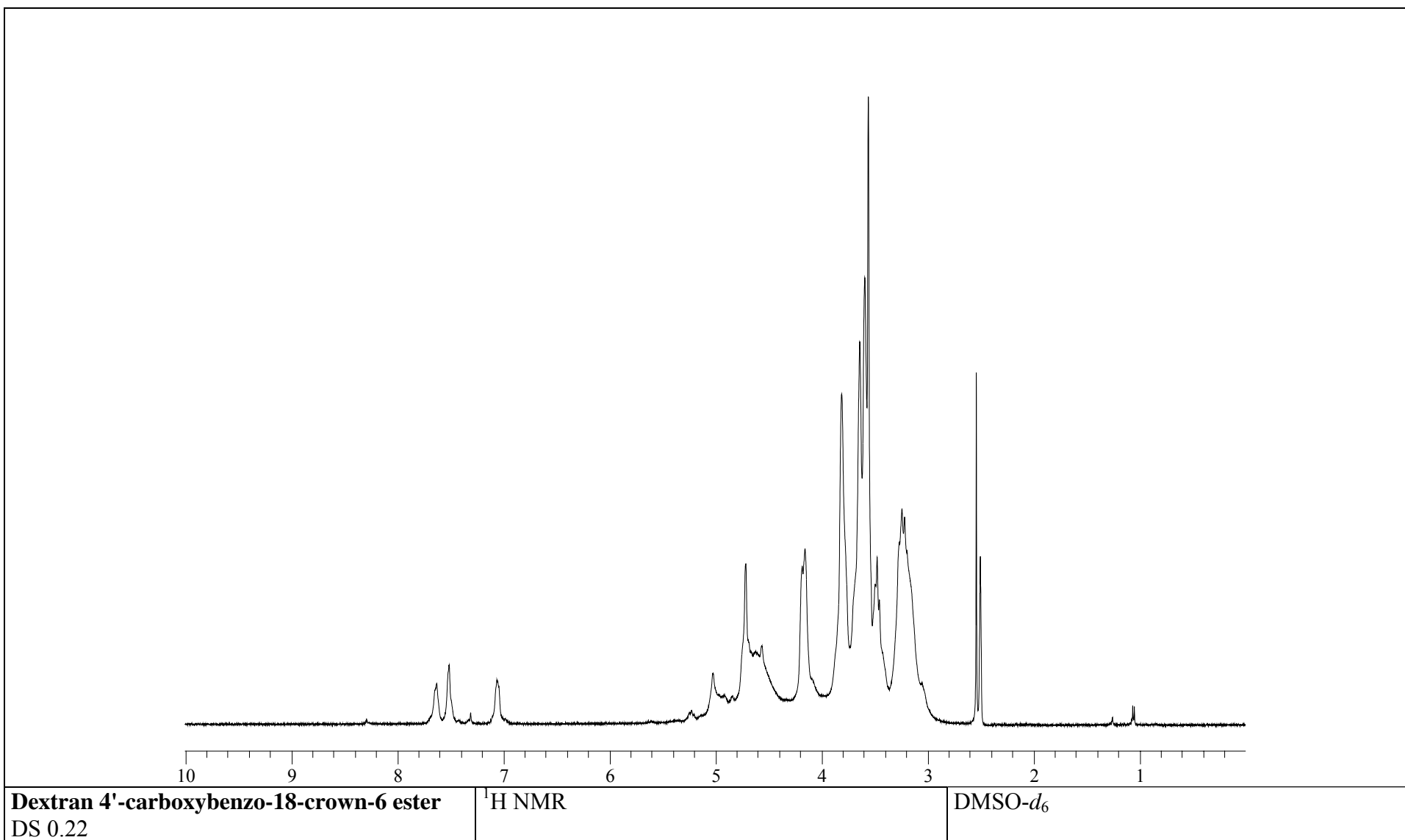
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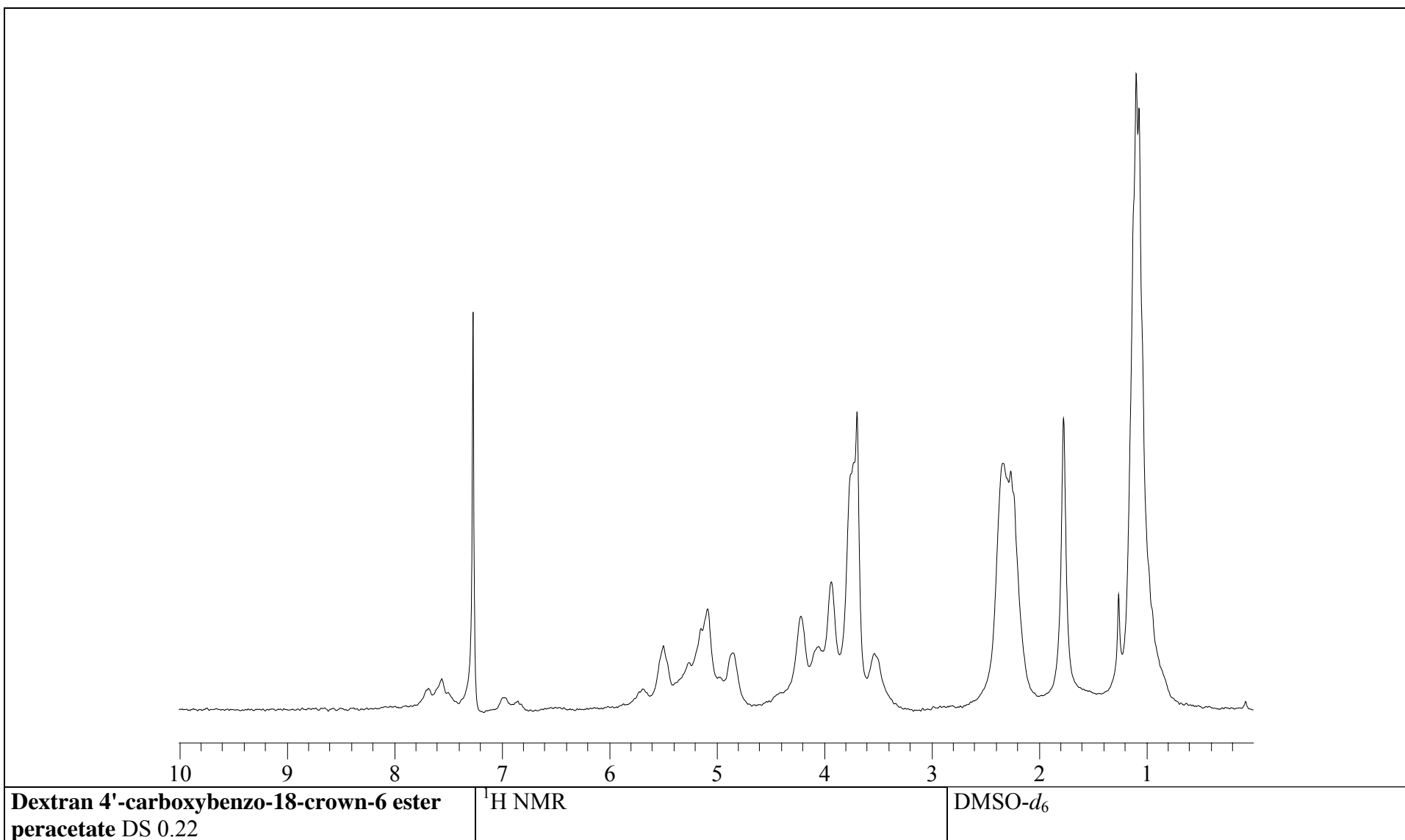
Back ↑



Back ↑



Back ↑

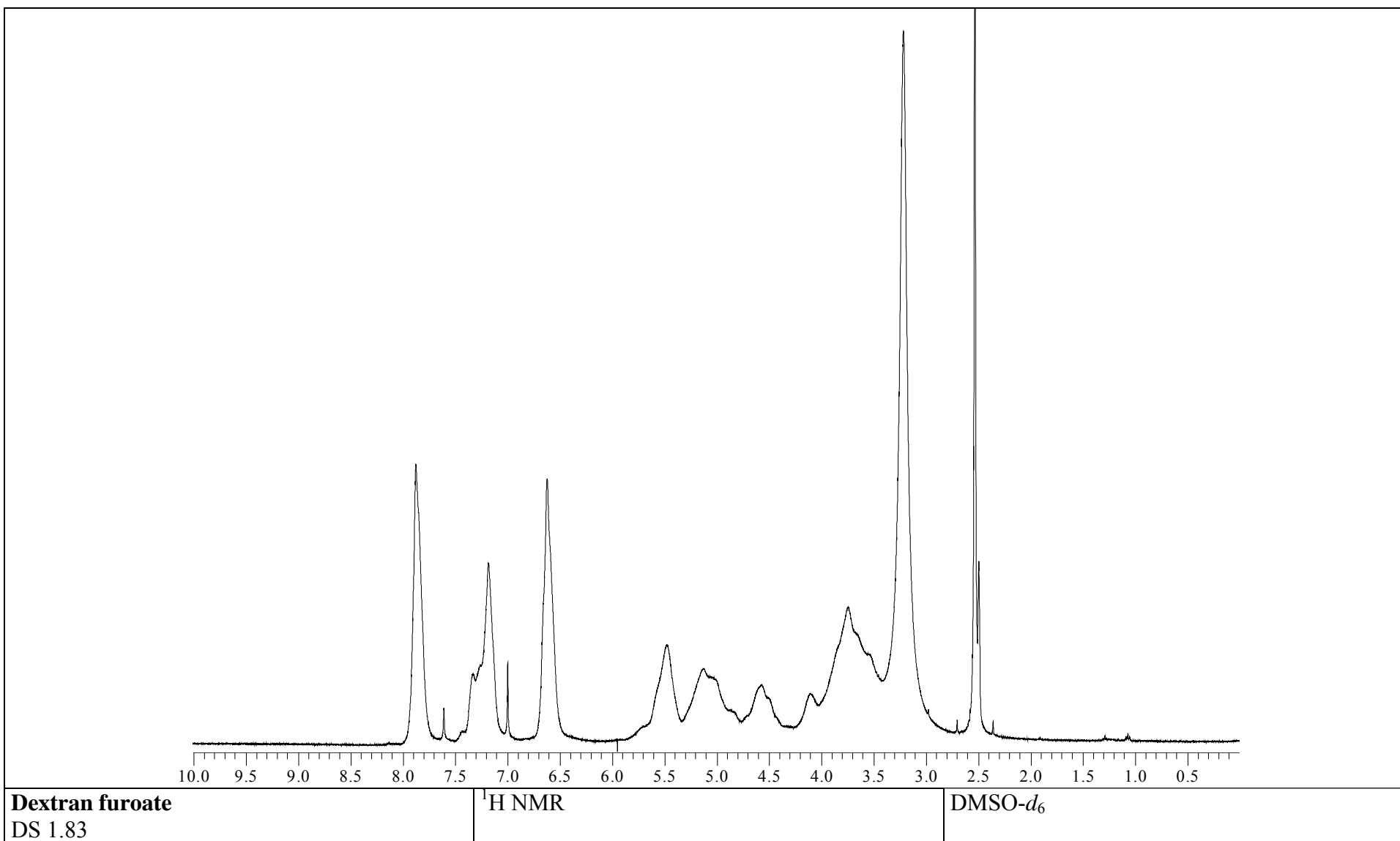


**Dextran 4'-carboxybenzo-18-crown-6 ester
peracetate DS 0.22**

¹H NMR

DMSO-*d*₆

Back ↑



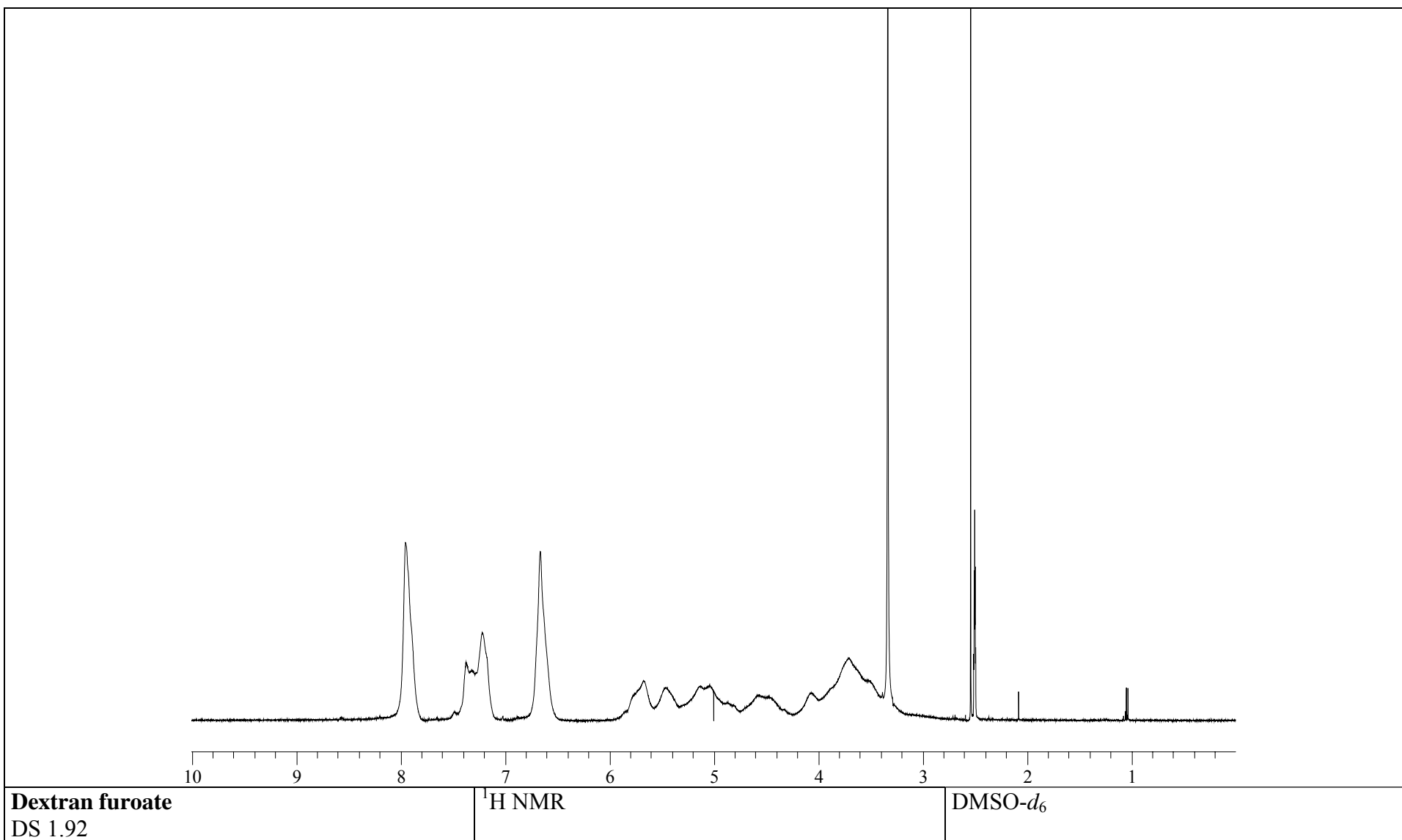
Dextran furoate

DS 1.83

Back ↑

¹H NMR

DMSO-*d*₆

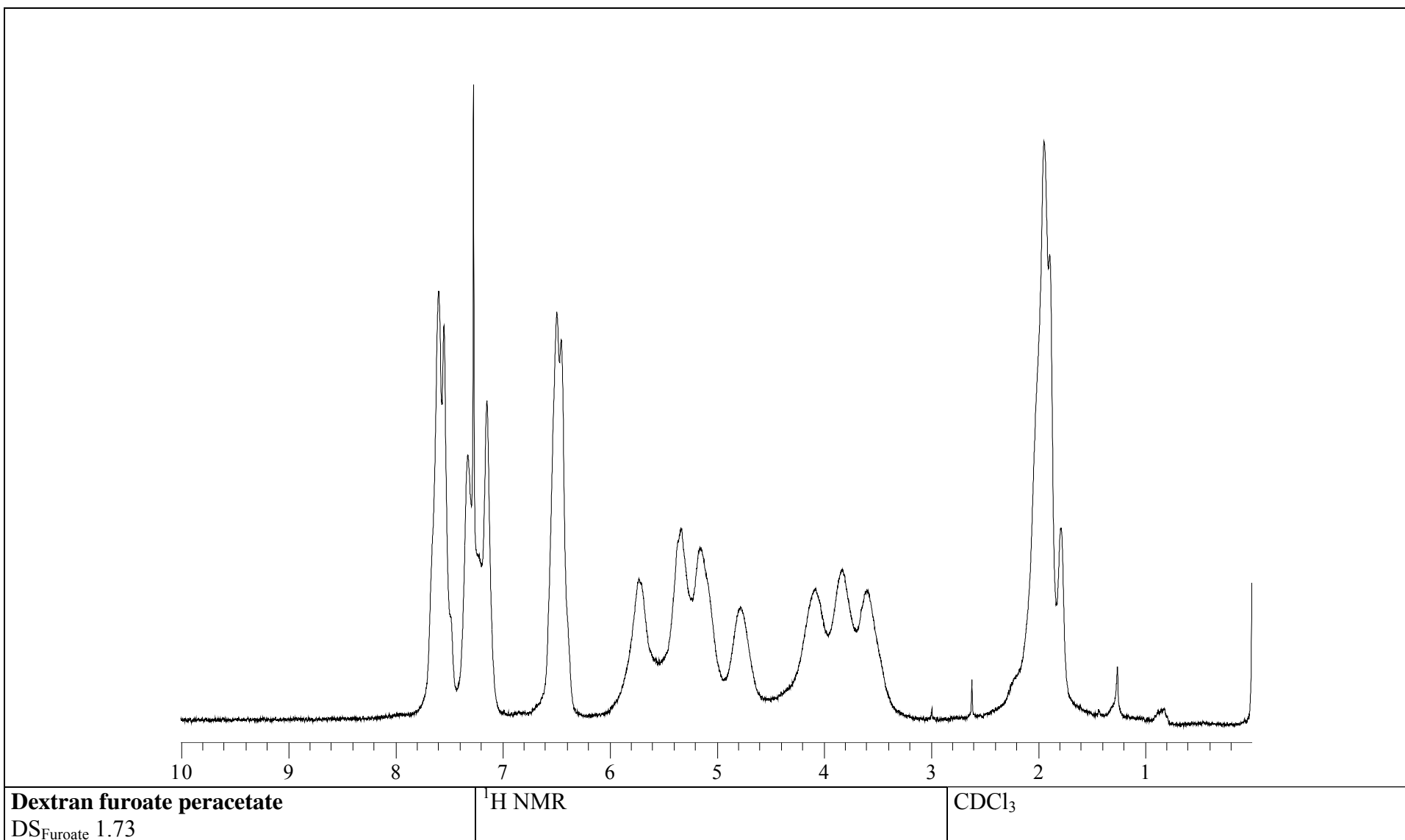


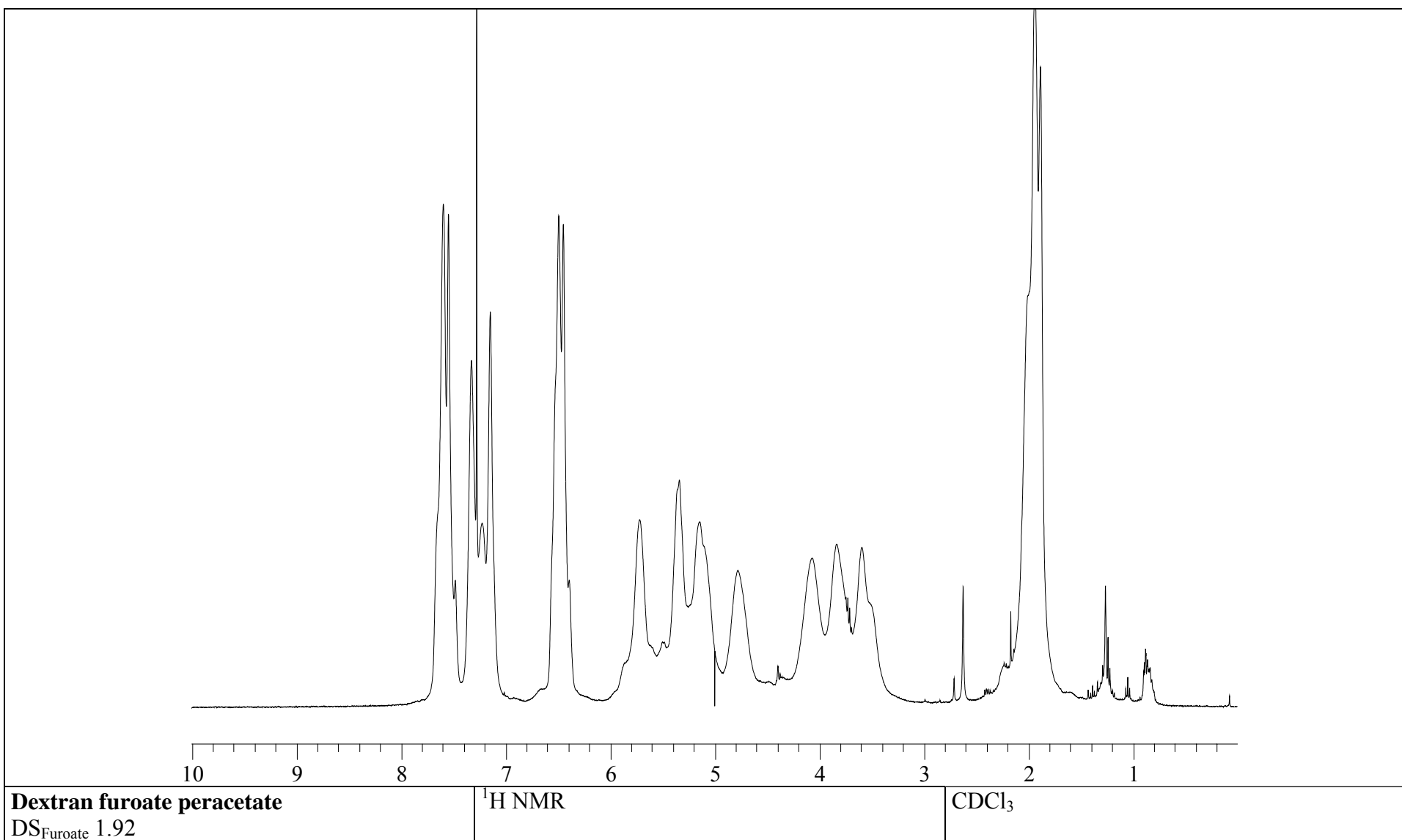
Dextran furoate
DS 1.92

^1H NMR

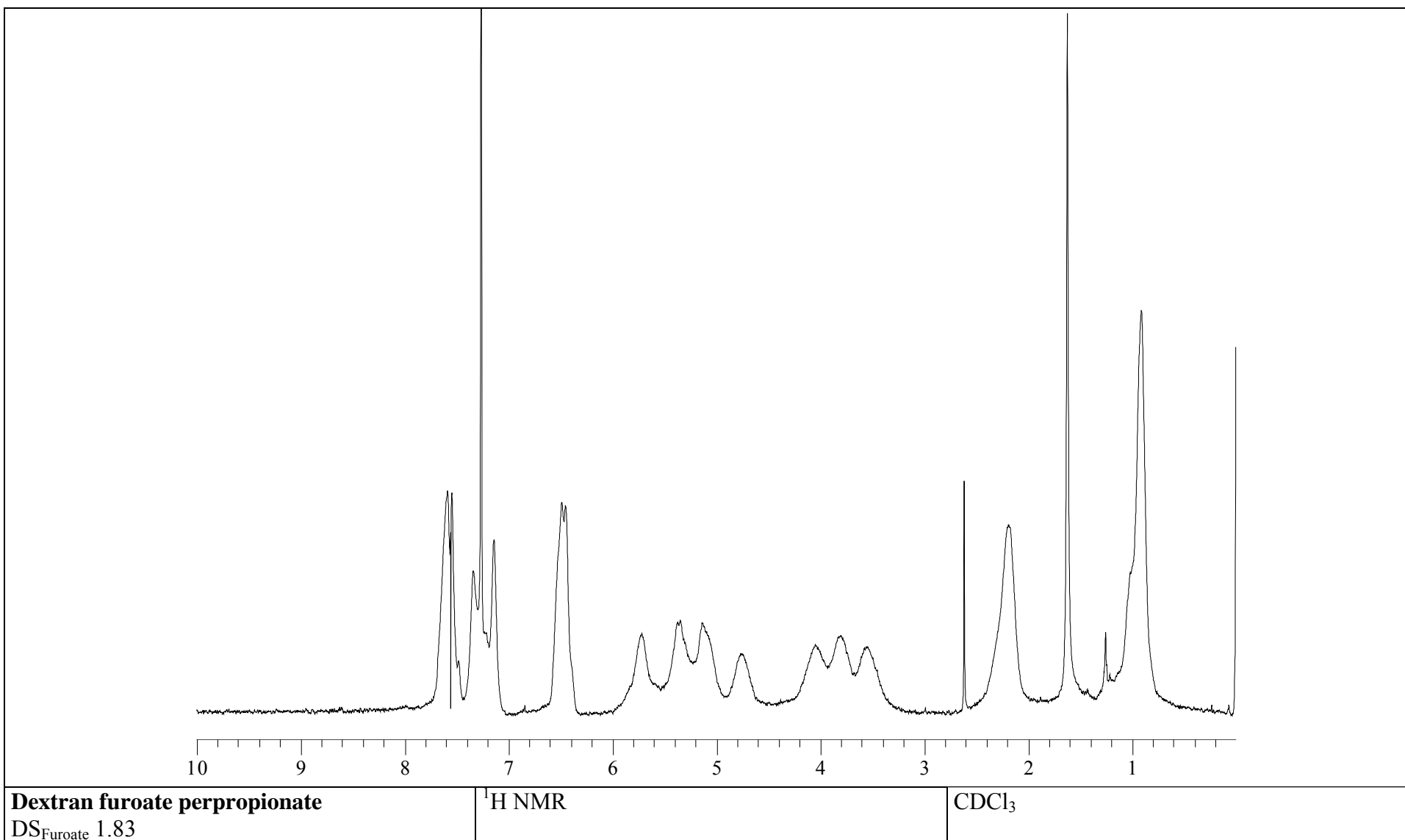
$\text{DMSO}-d_6$

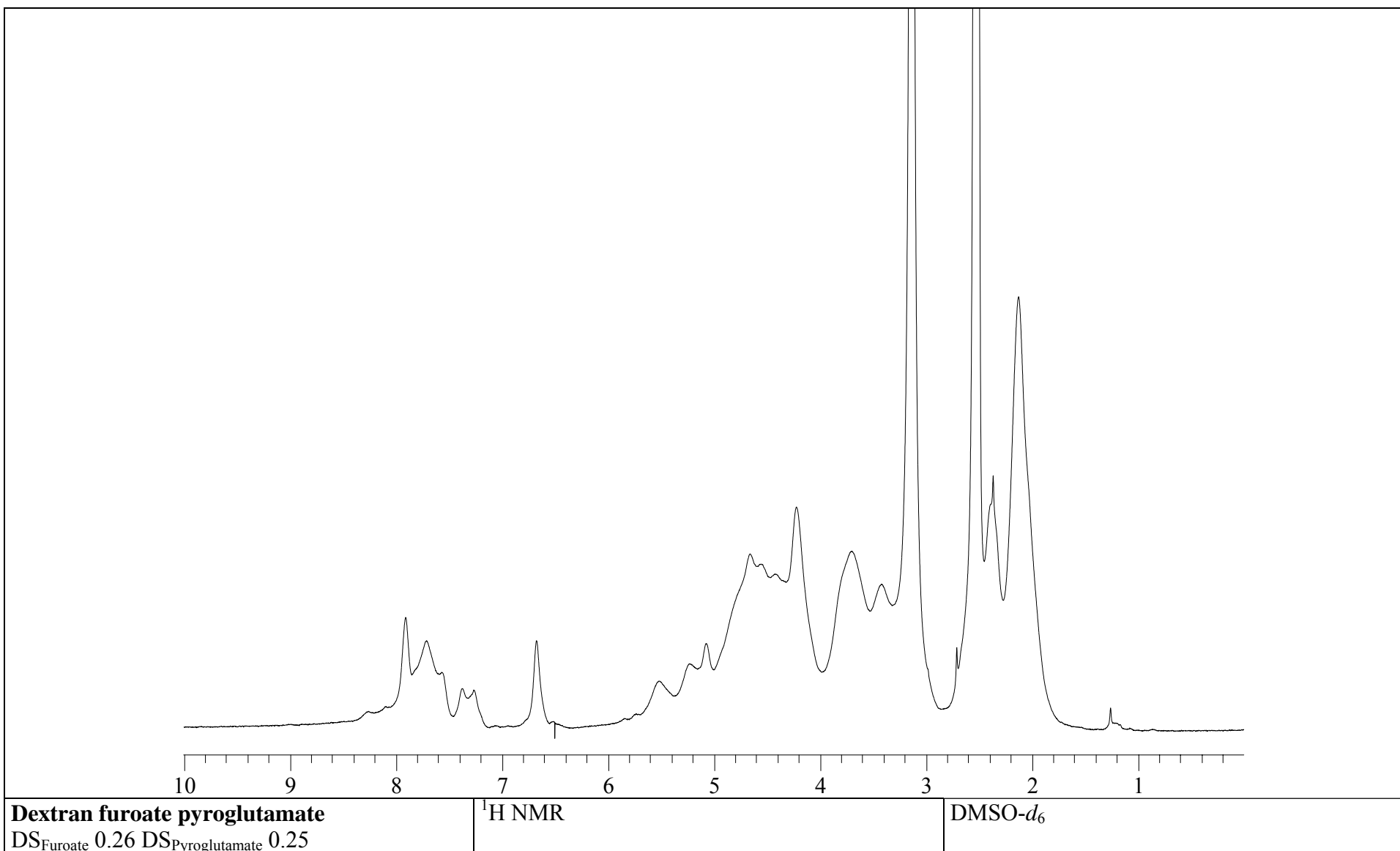
Back ↑



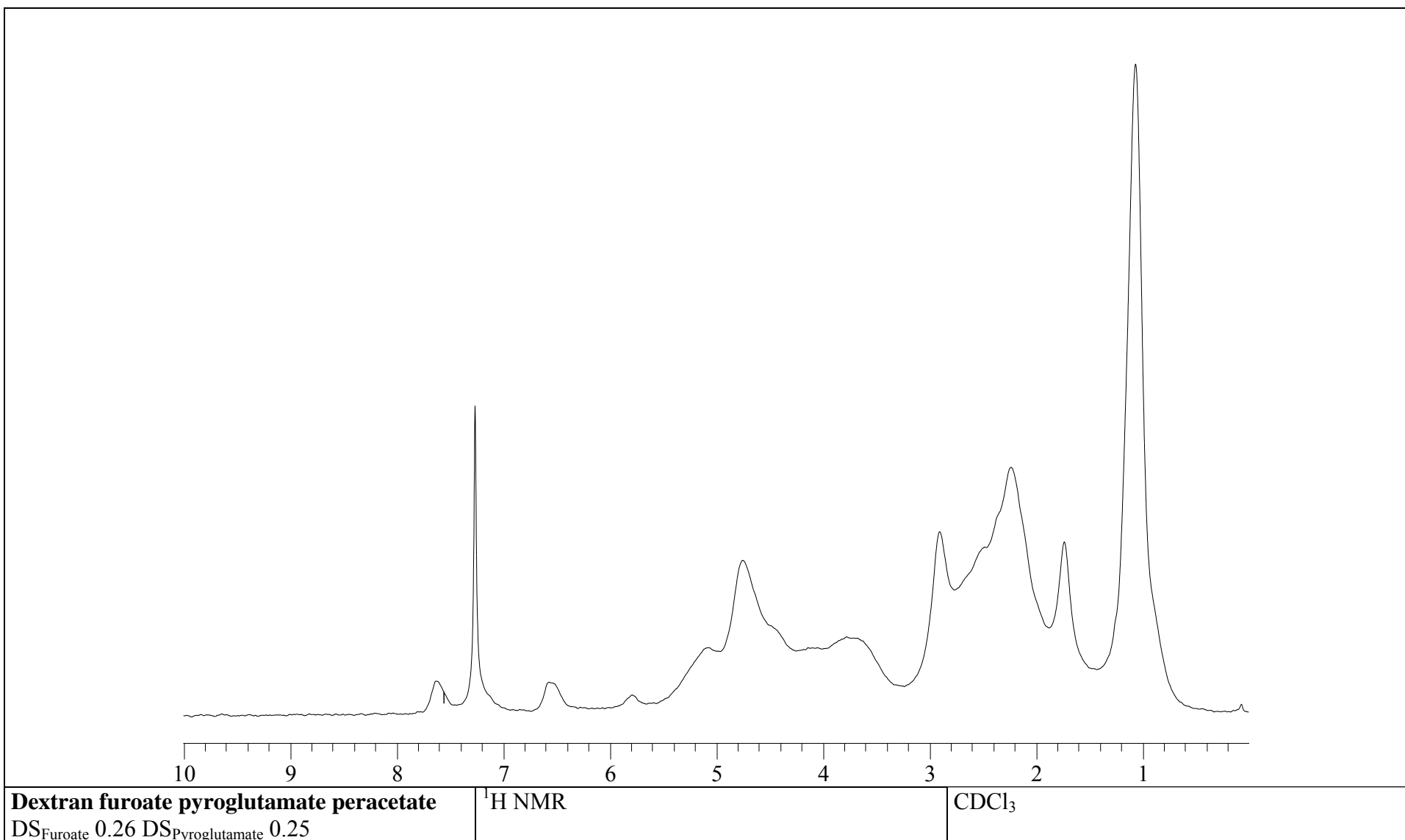


Back ↑

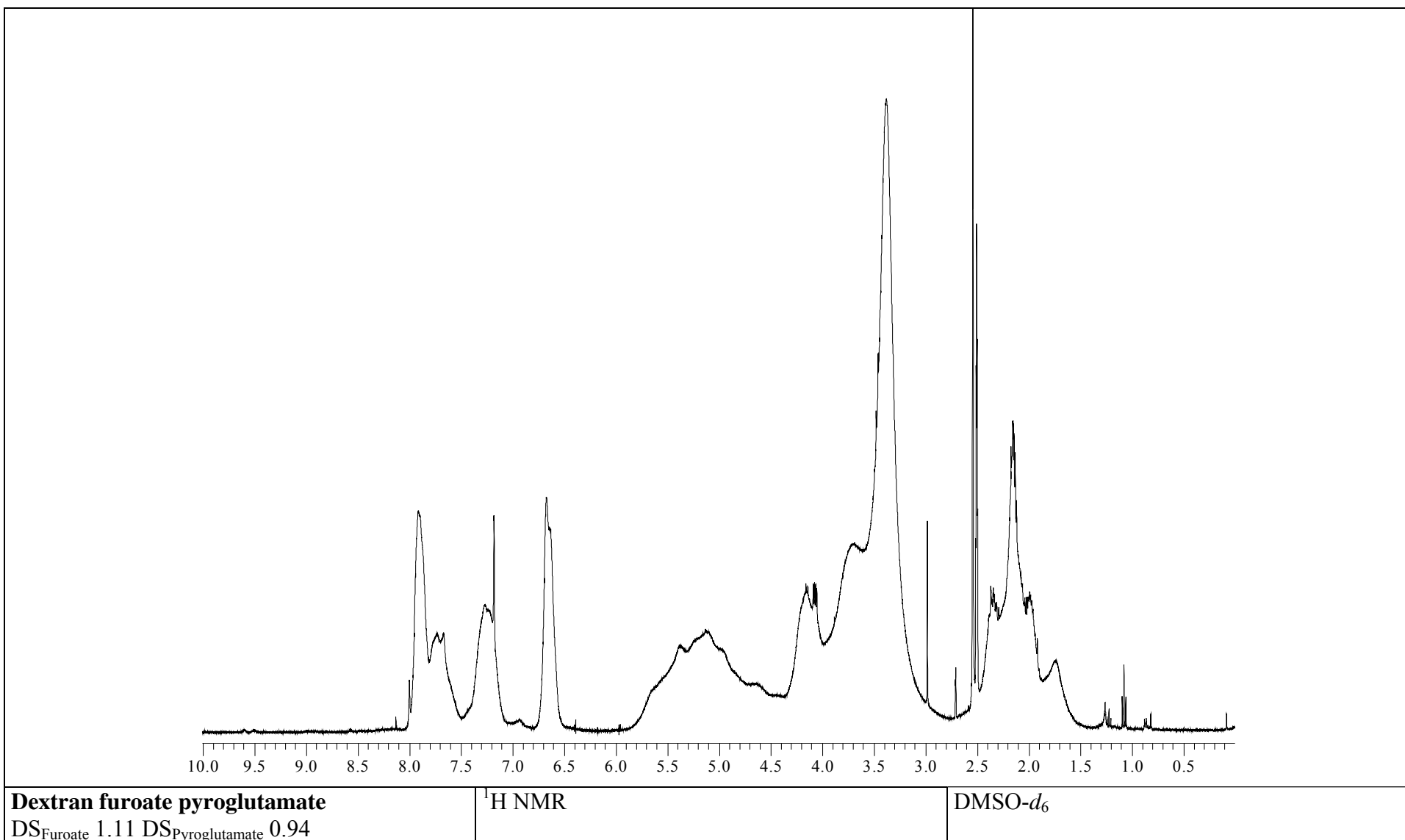




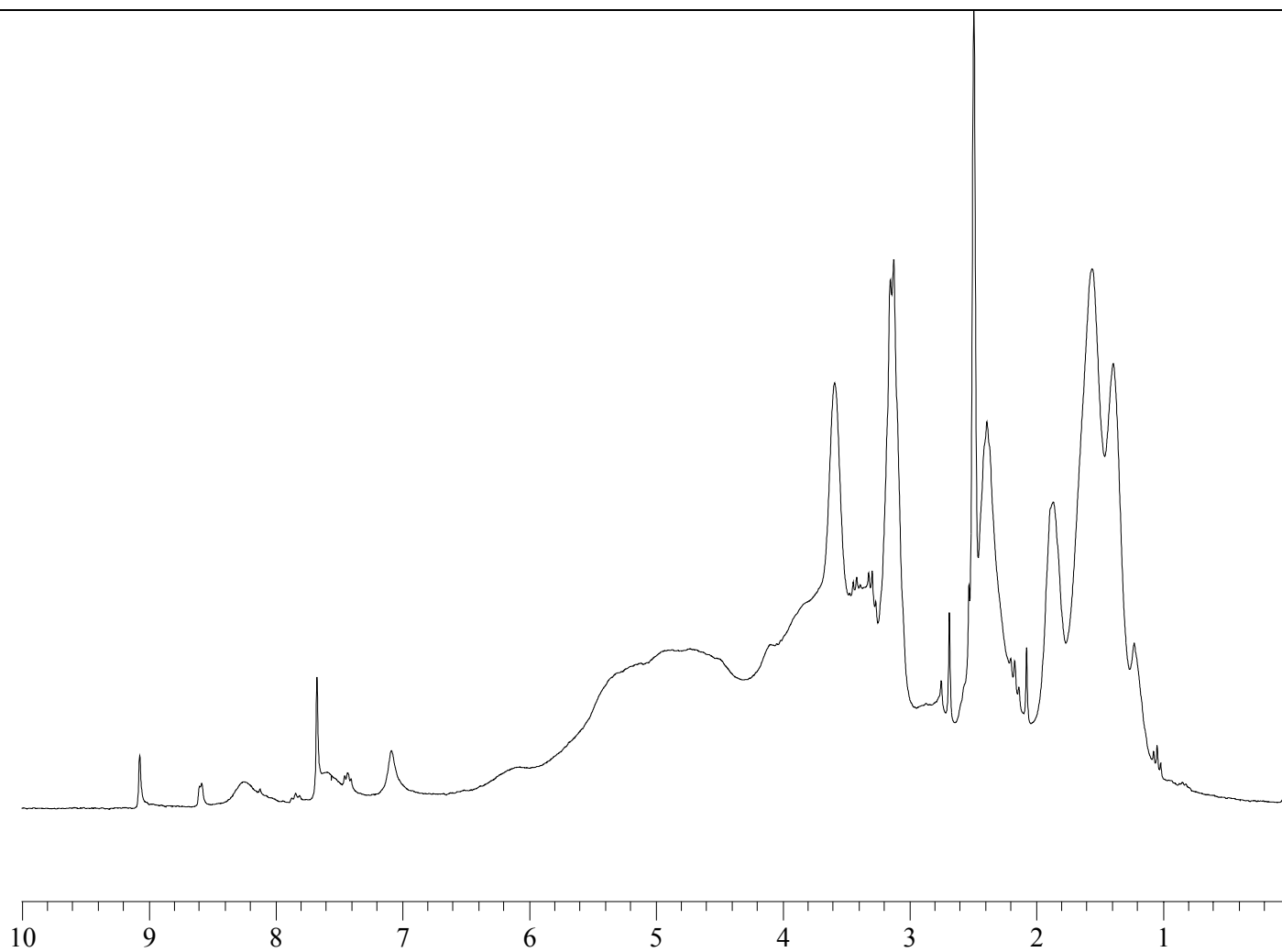
Back ↑



Back ↑



Back ↑

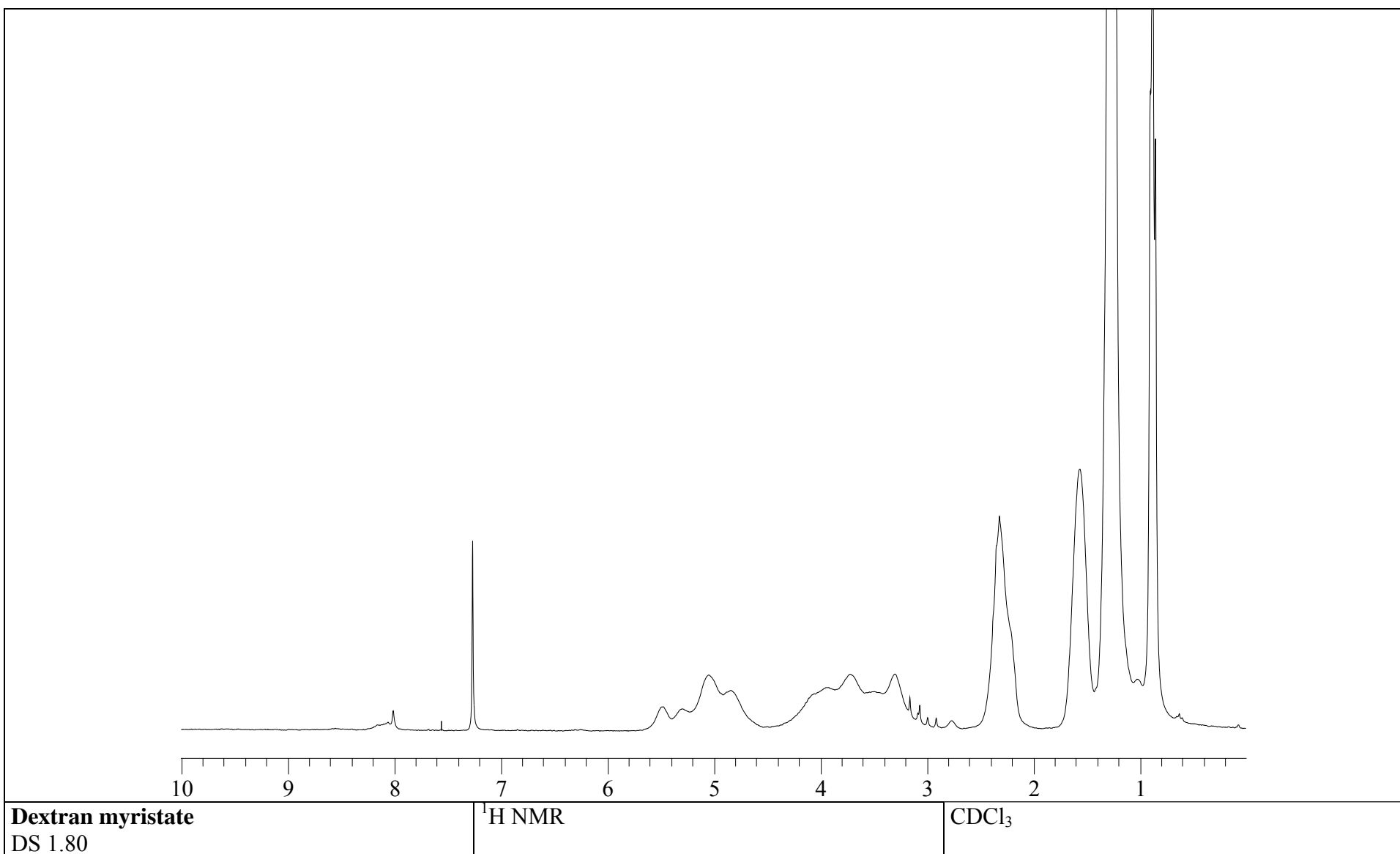


Dextran DL- α -lipoate
DS 0.44

¹H NMR

DMSO-*d*₆

Back ↑

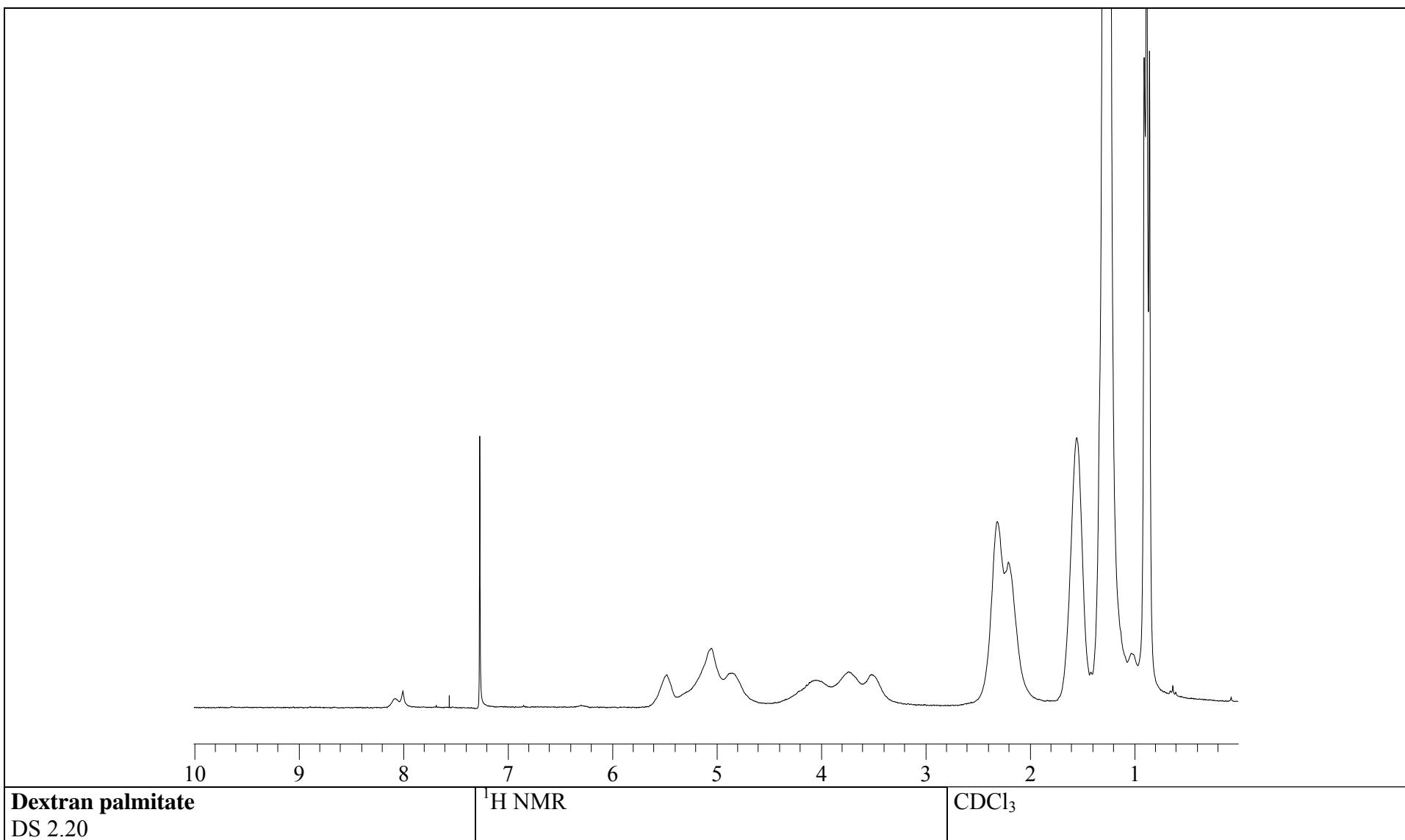


Dextran myristate
DS 1.80

¹H NMR

CDCl₃

Back ↑



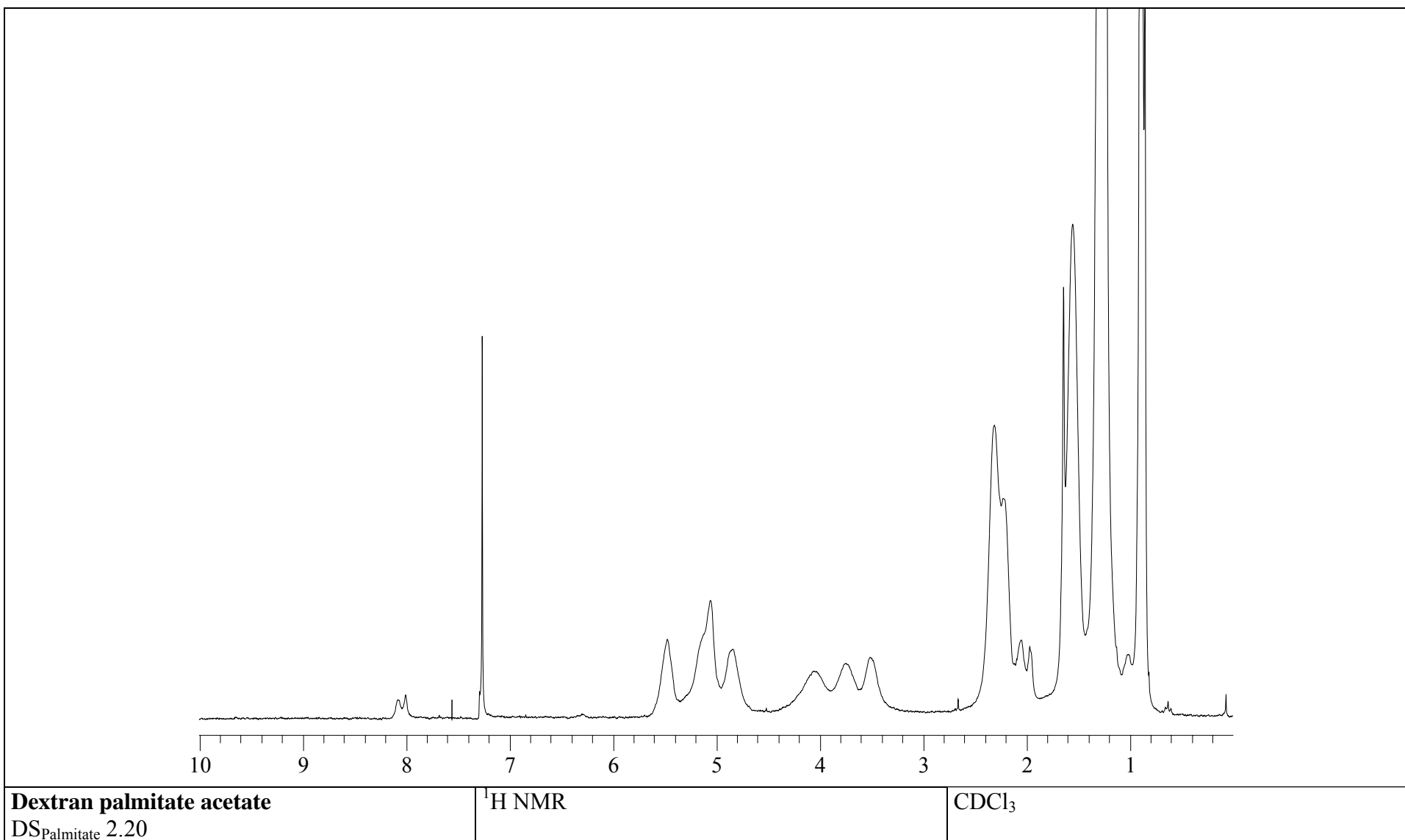
Dextran palmitate

DS 2.20

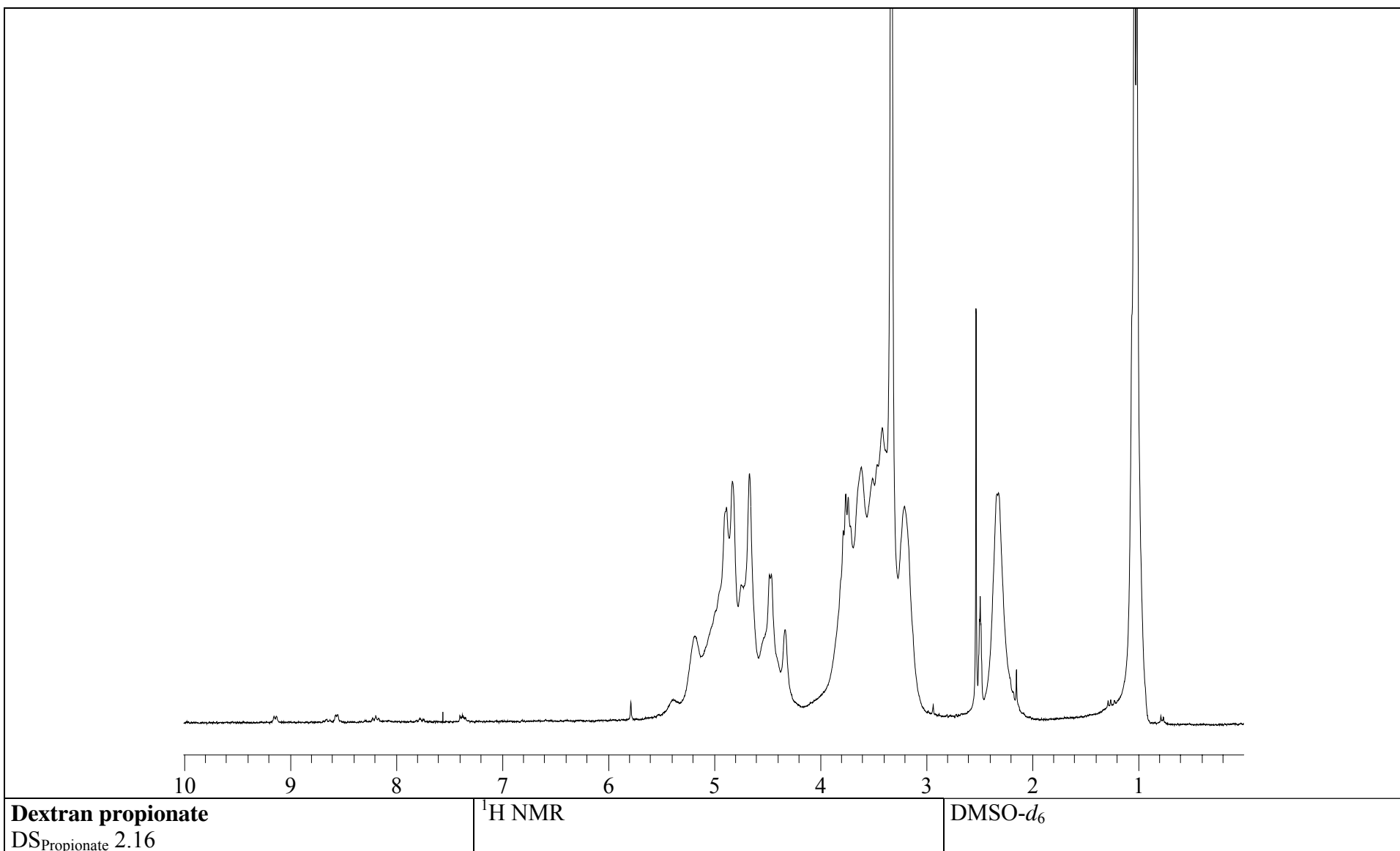
Back ↑

¹H NMR

CDCl₃



Back ↑



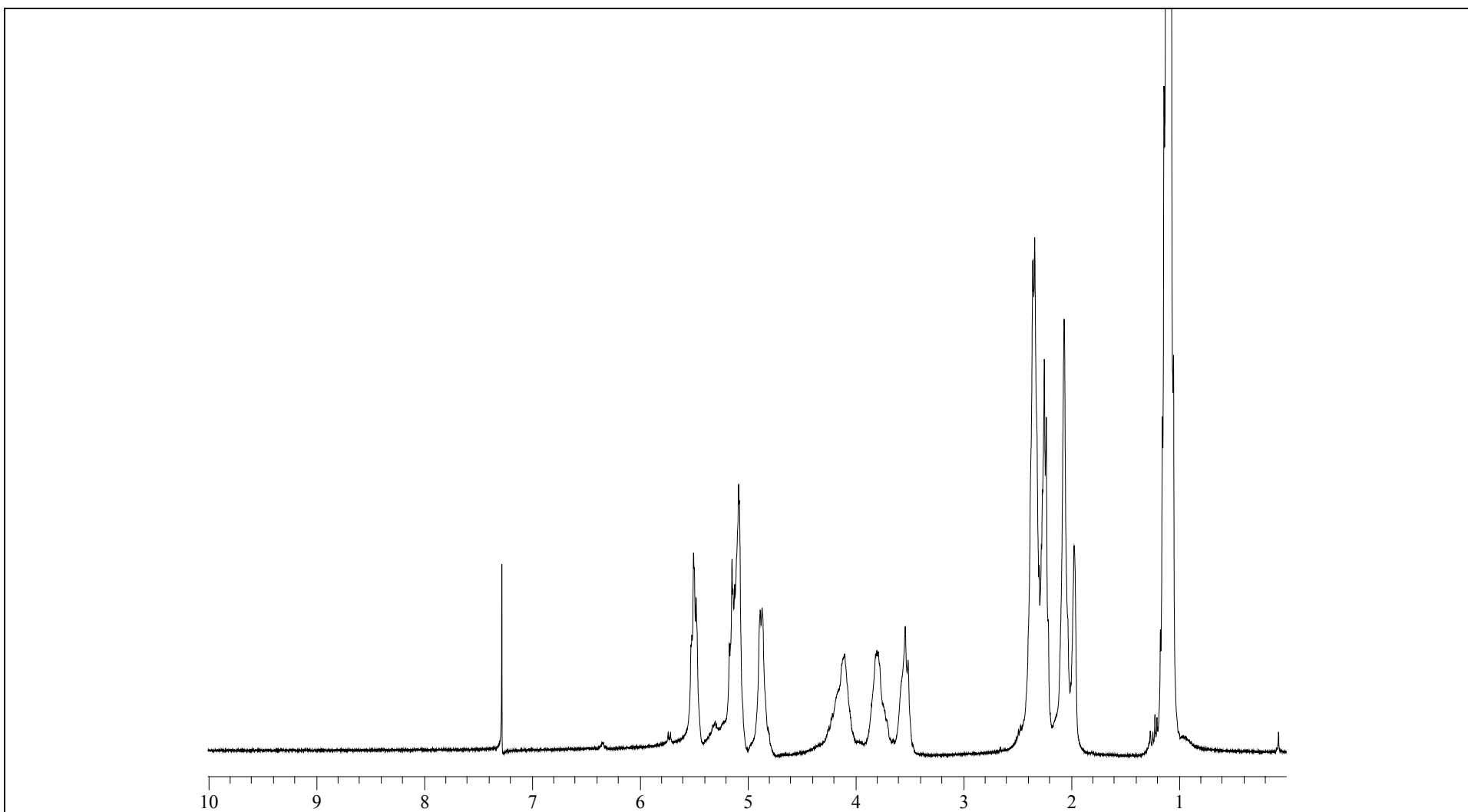
Dextran propionate

$\text{DS}_{\text{Propionate}}$ 2.16

^1H NMR

$\text{DMSO}-d_6$

Back ↑



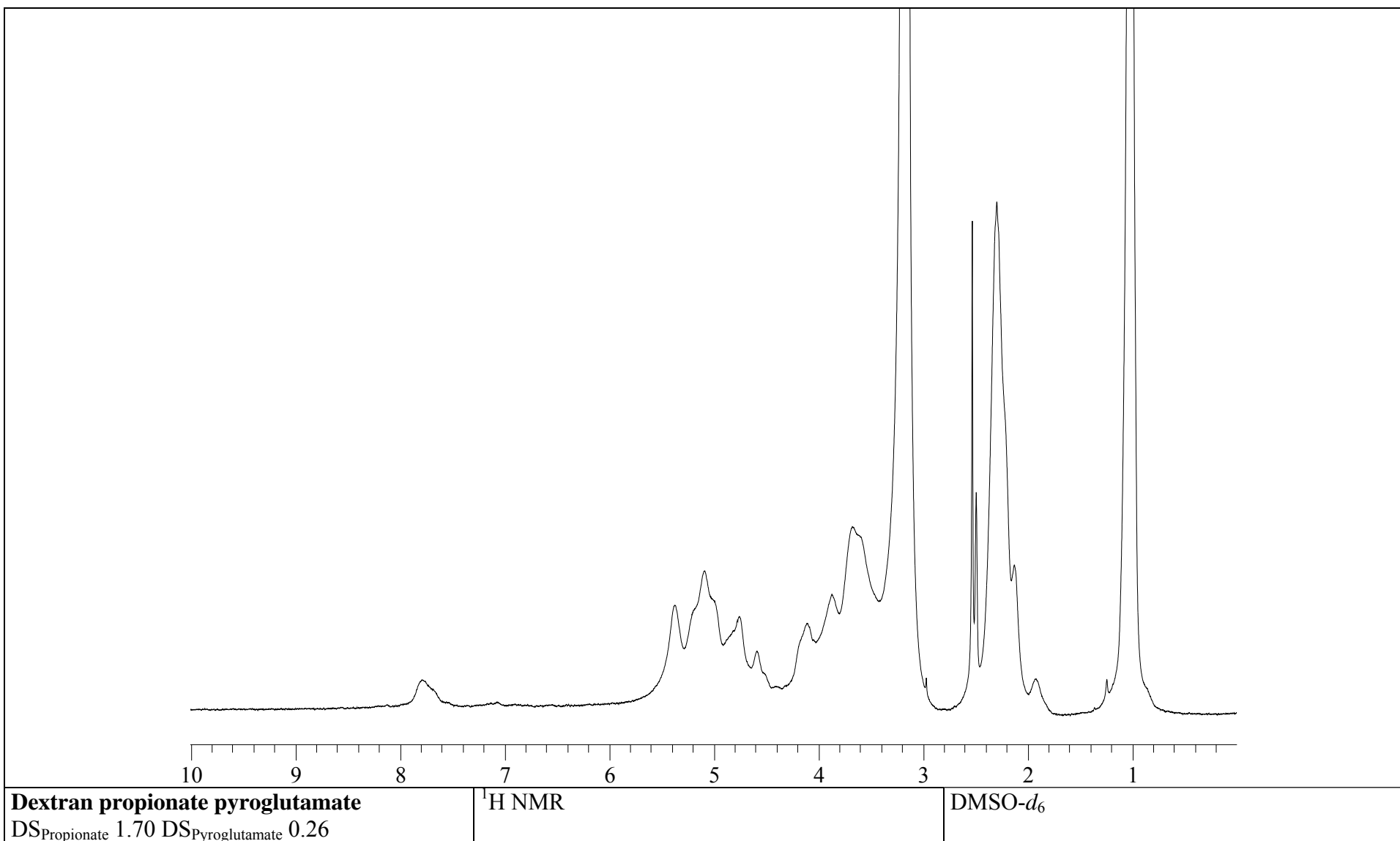
Dextran propionate acetate

DS_{Propionate} 1.70 DS_{Acetate} 1.30

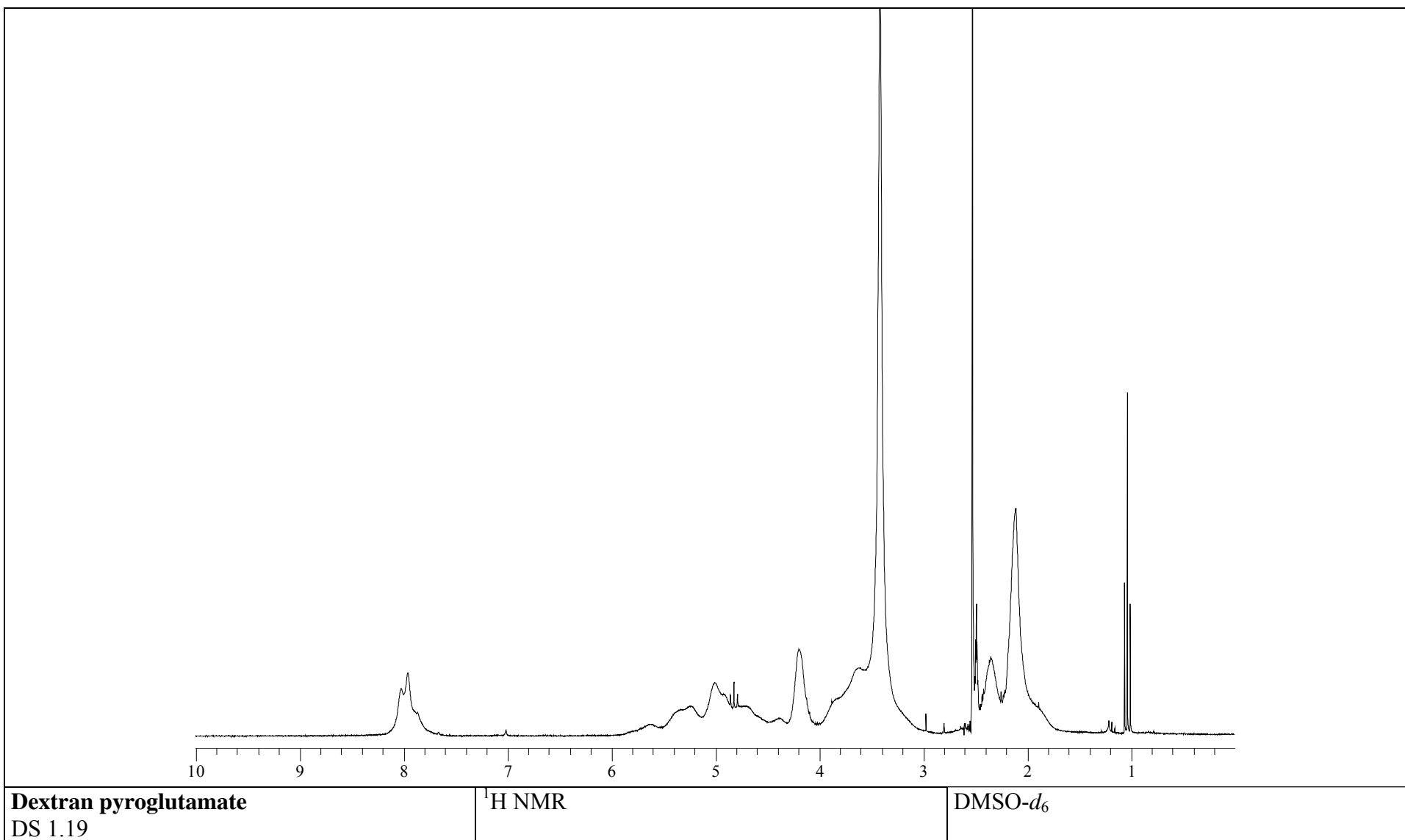
Back ↑

^1H NMR

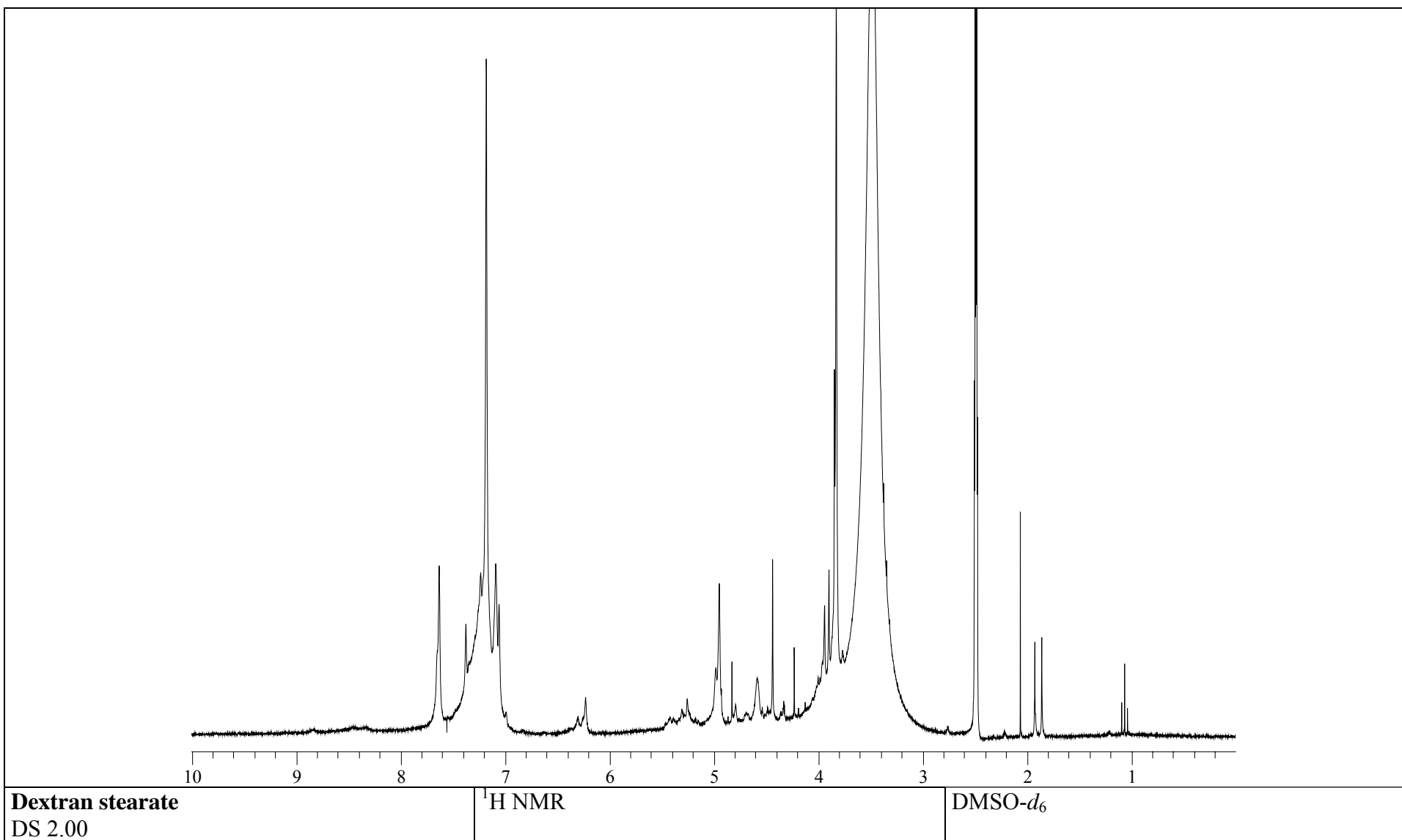
CDCl_3



Back ↑



Back ↑

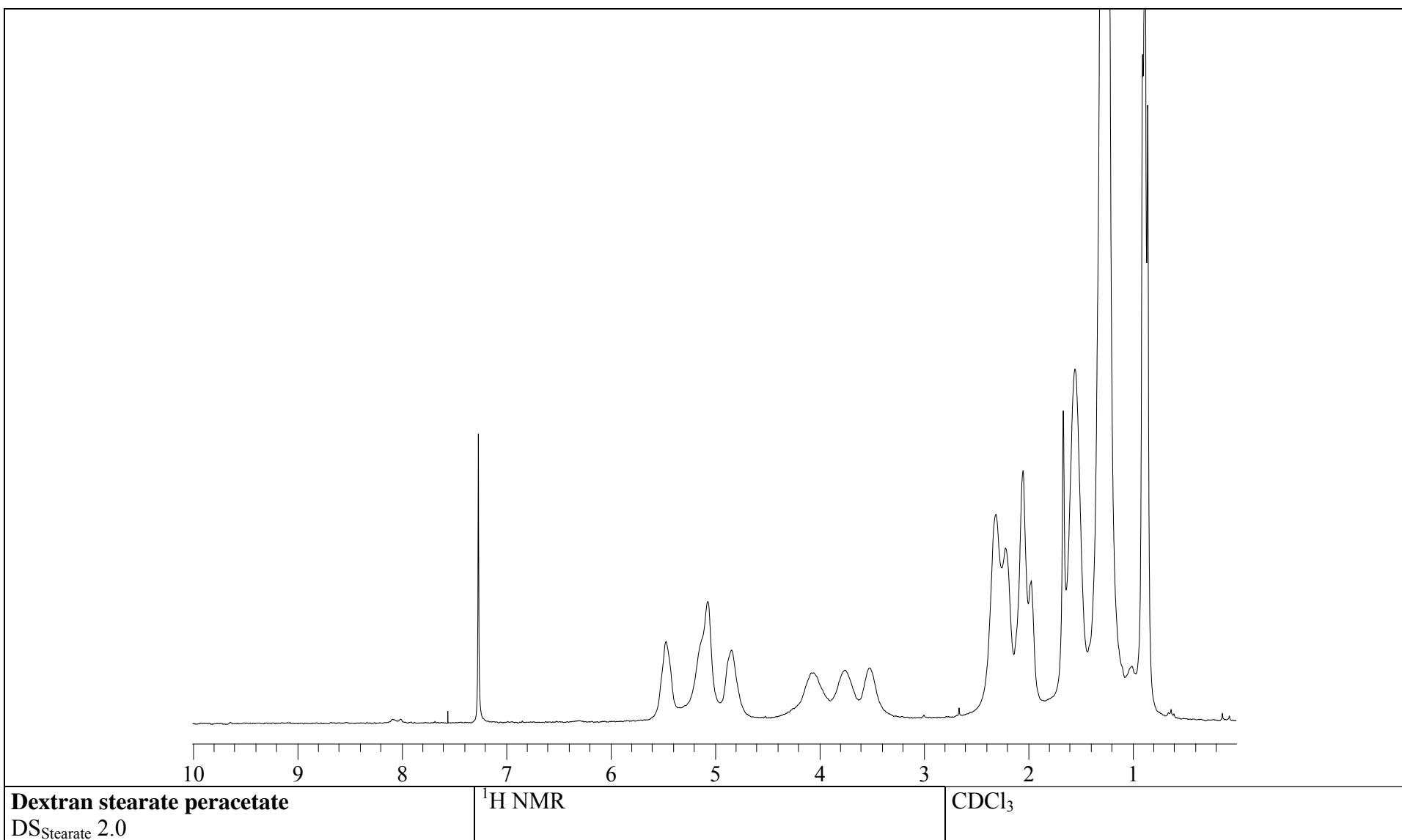


Dextran stearate
DS 2.00

¹H NMR

DMSO-*d*₆

Back ↑



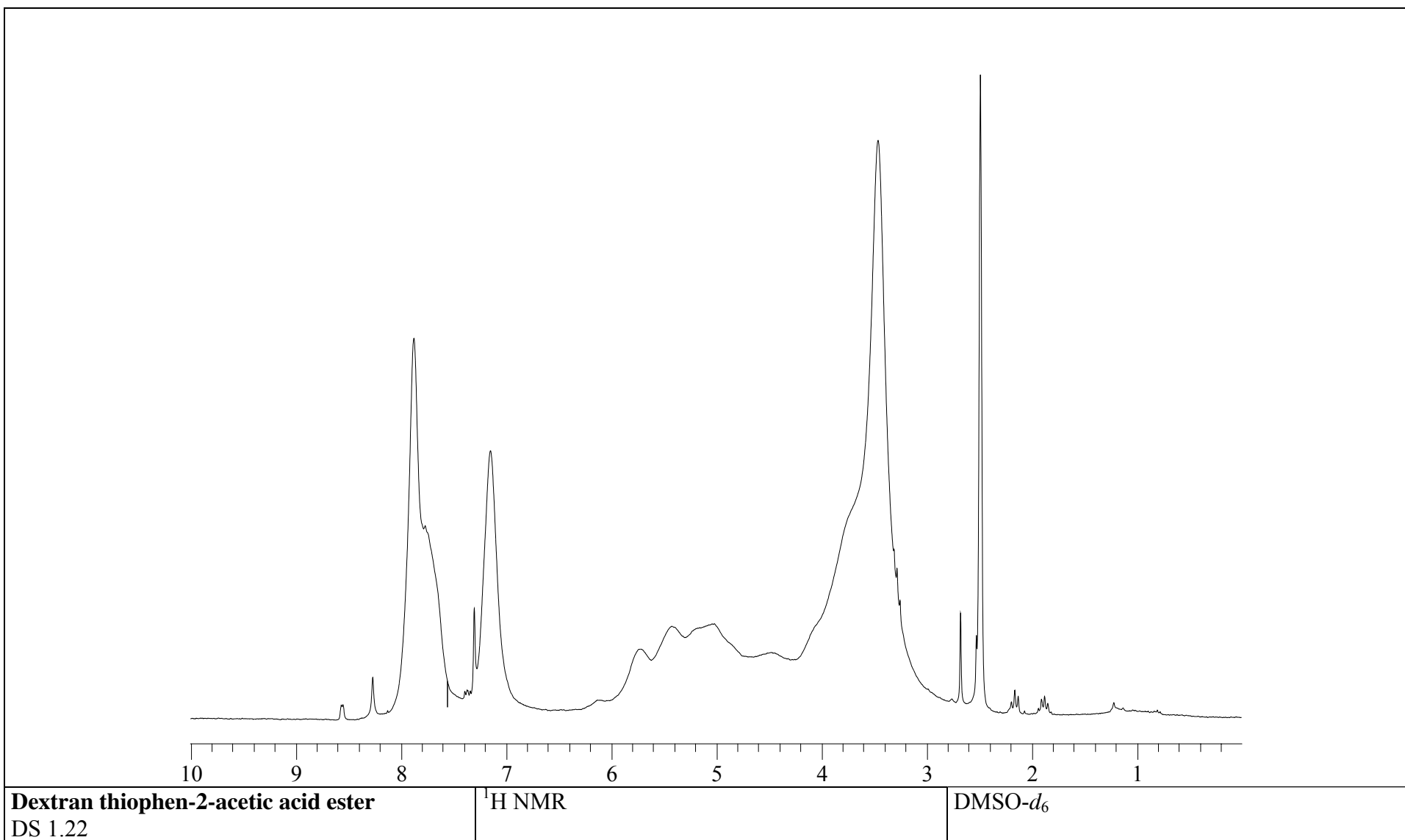
Dextran stearate peracetate

DS_{Stearate} 2.0

¹H NMR

CDCl₃

Back ↑



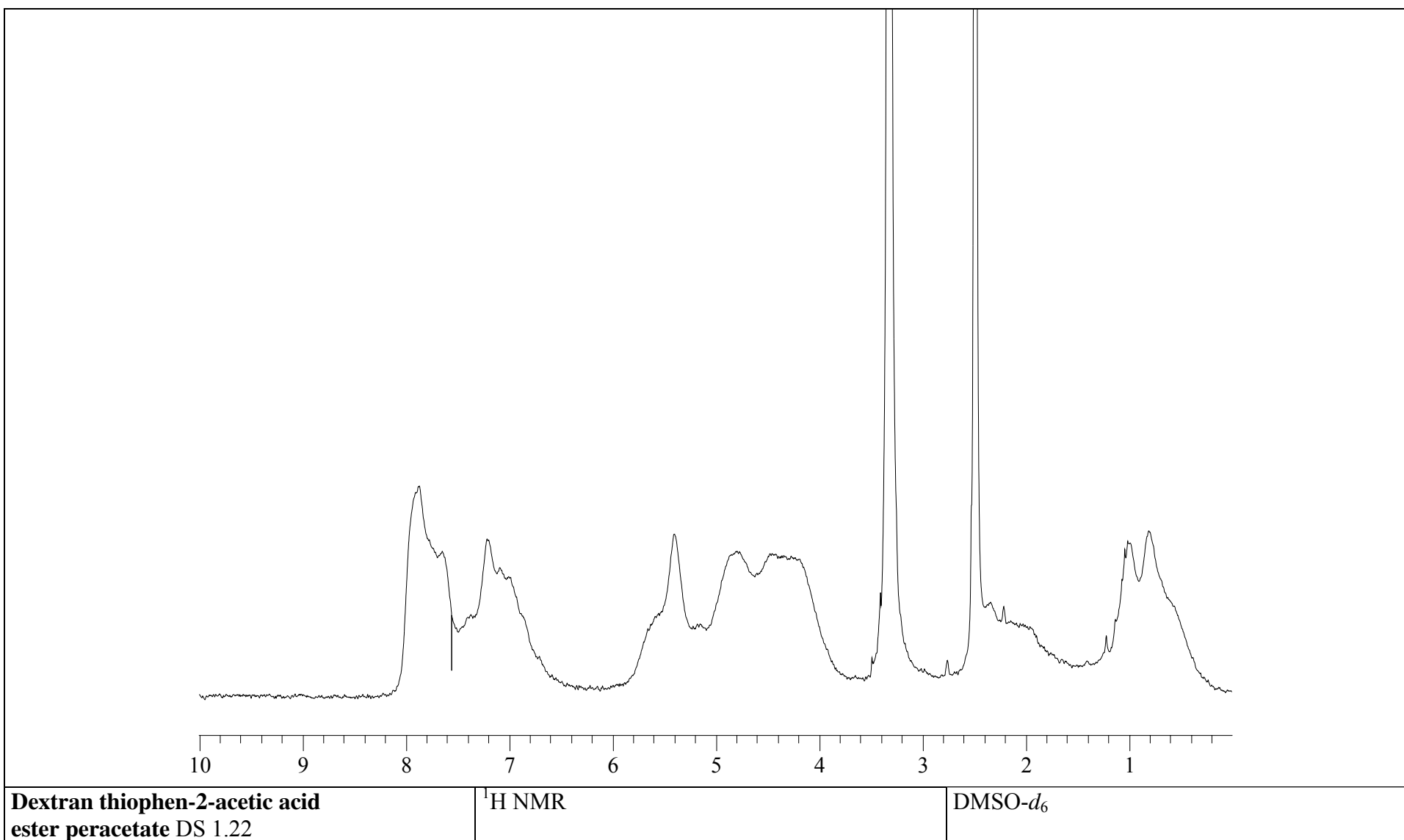
Dextran thiophen-2-acetic acid ester

DS 1.22

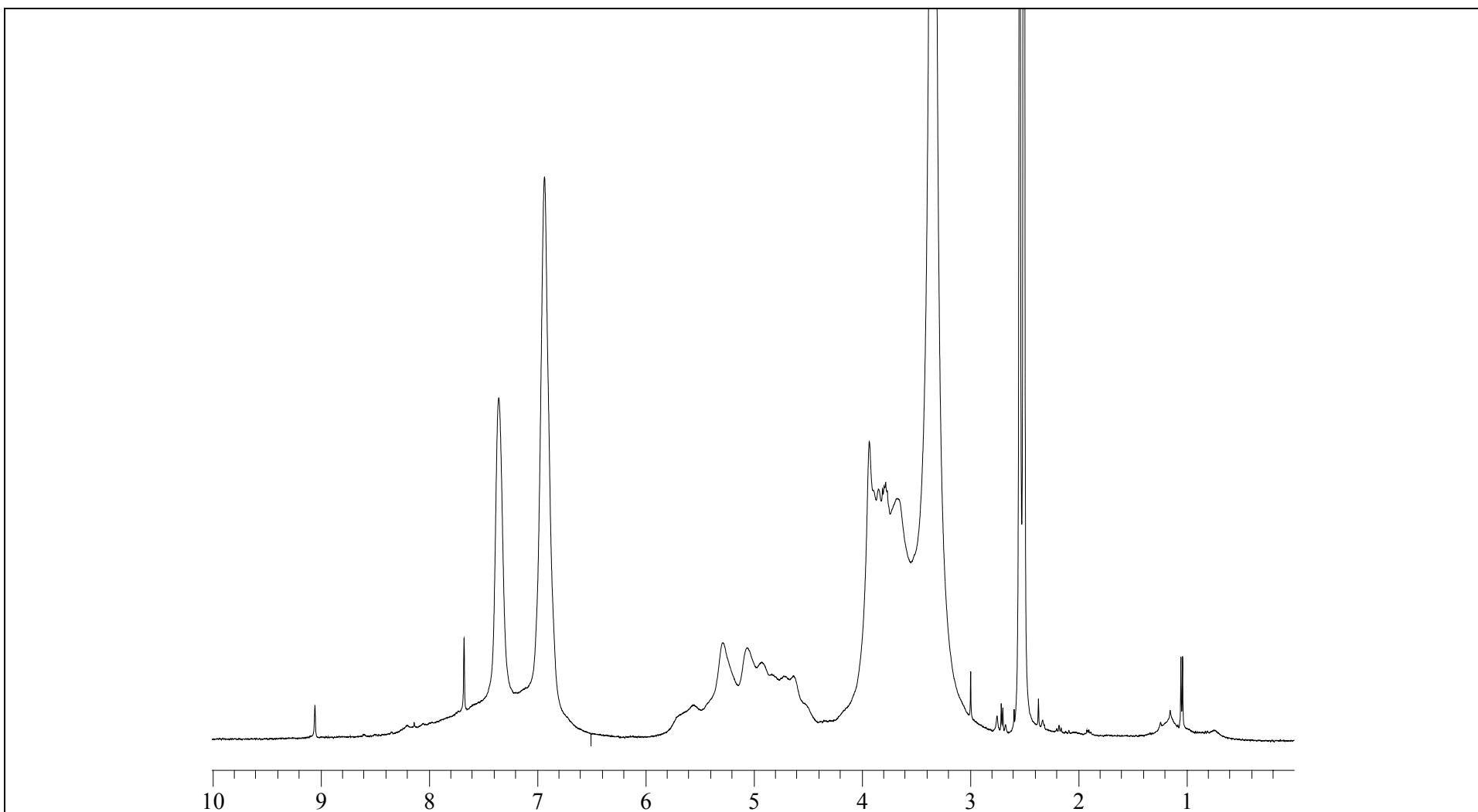
¹H NMR

DMSO-*d*₆

Back ↑



Back ↑



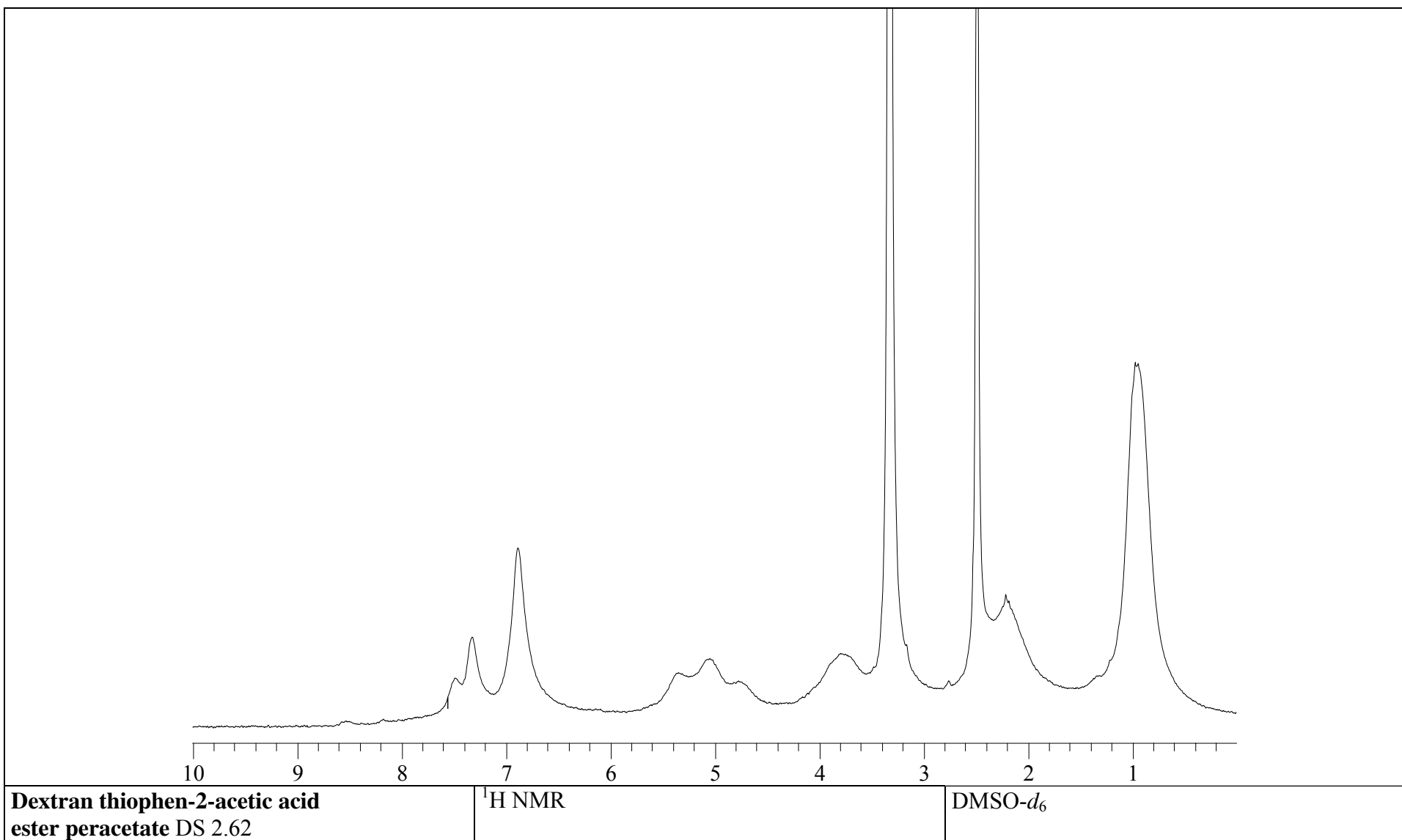
Dextran thiophen-2-acetic acid ester

DS 2.62

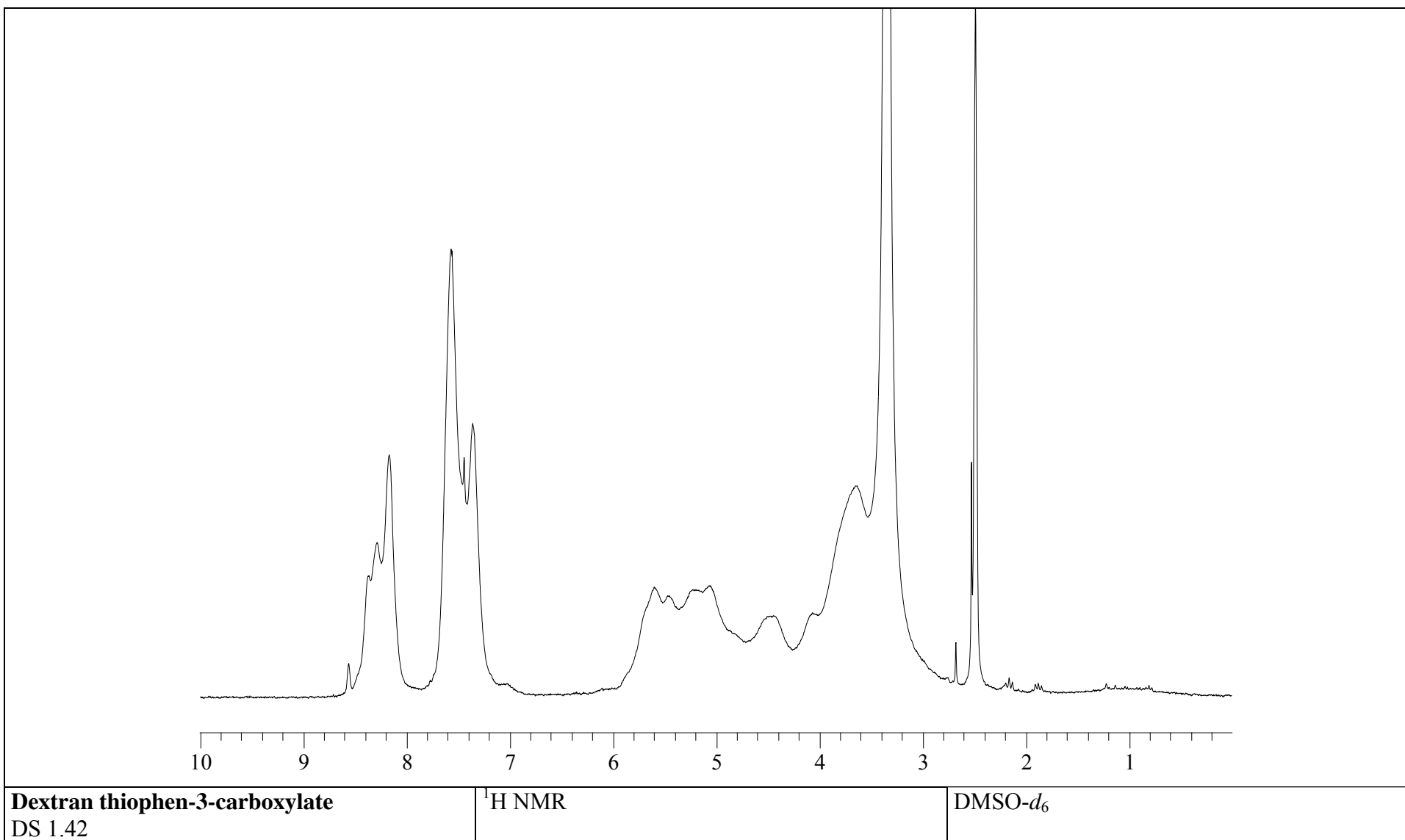
¹H NMR

DMSO-*d*₆

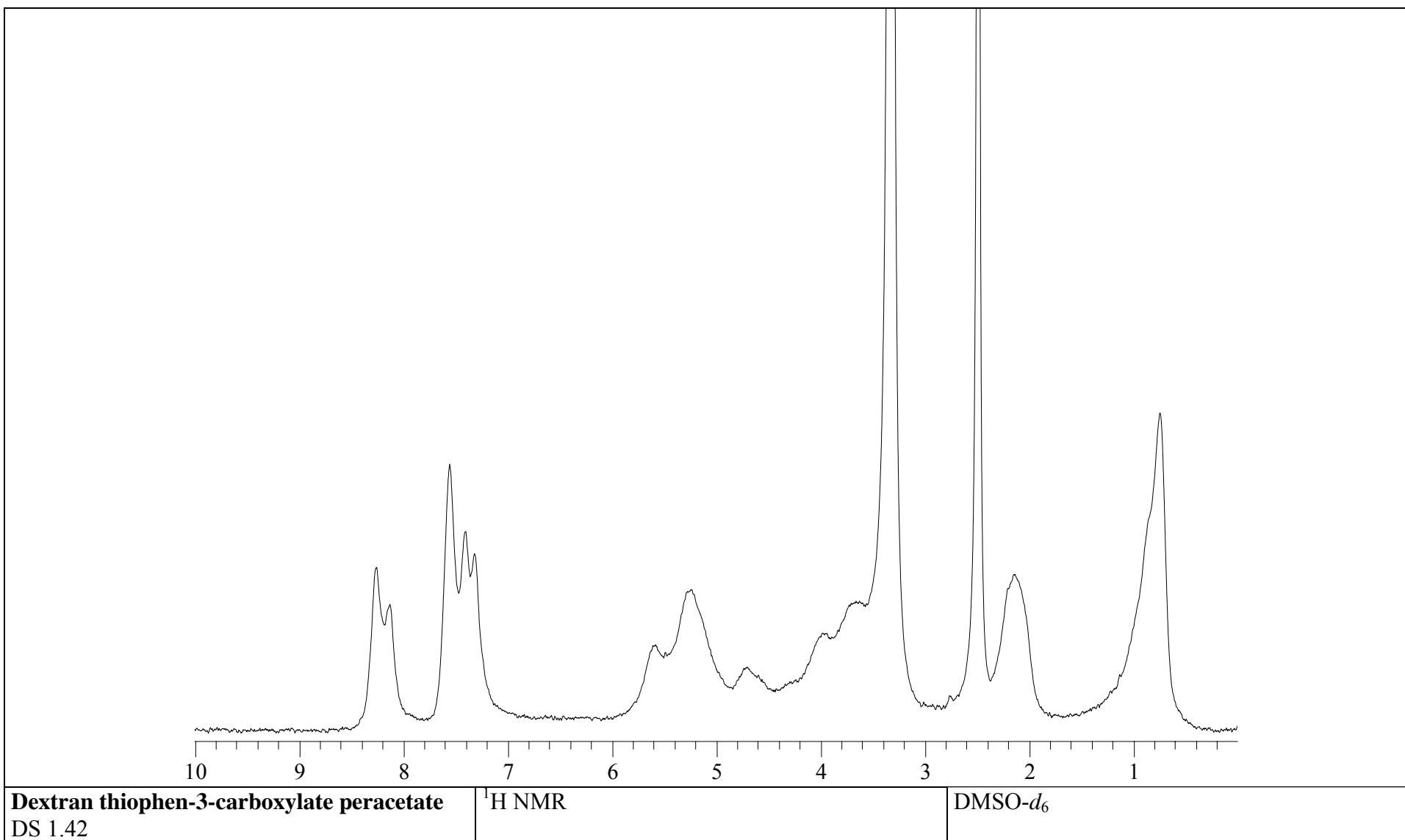
Back ↑



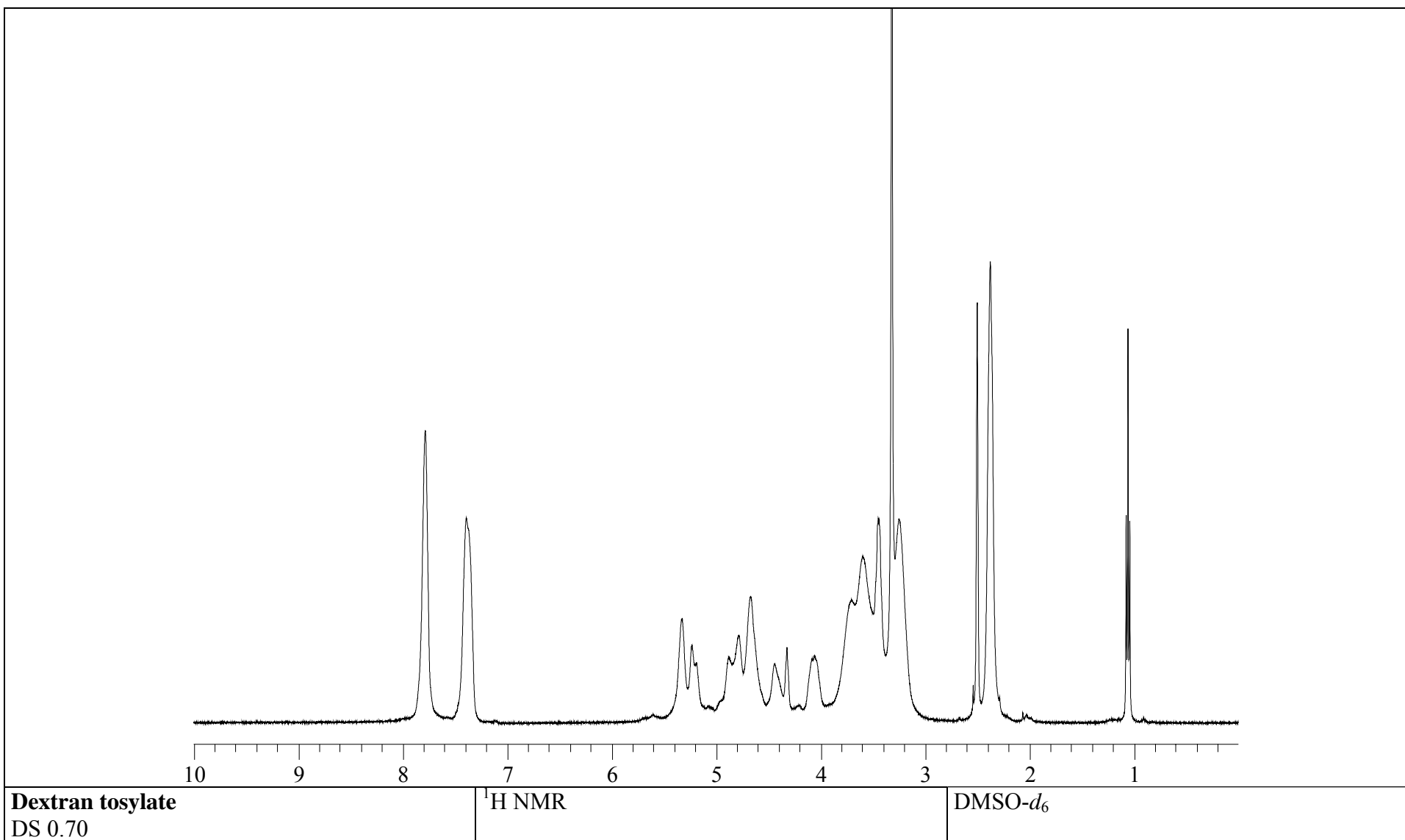
Back ↑



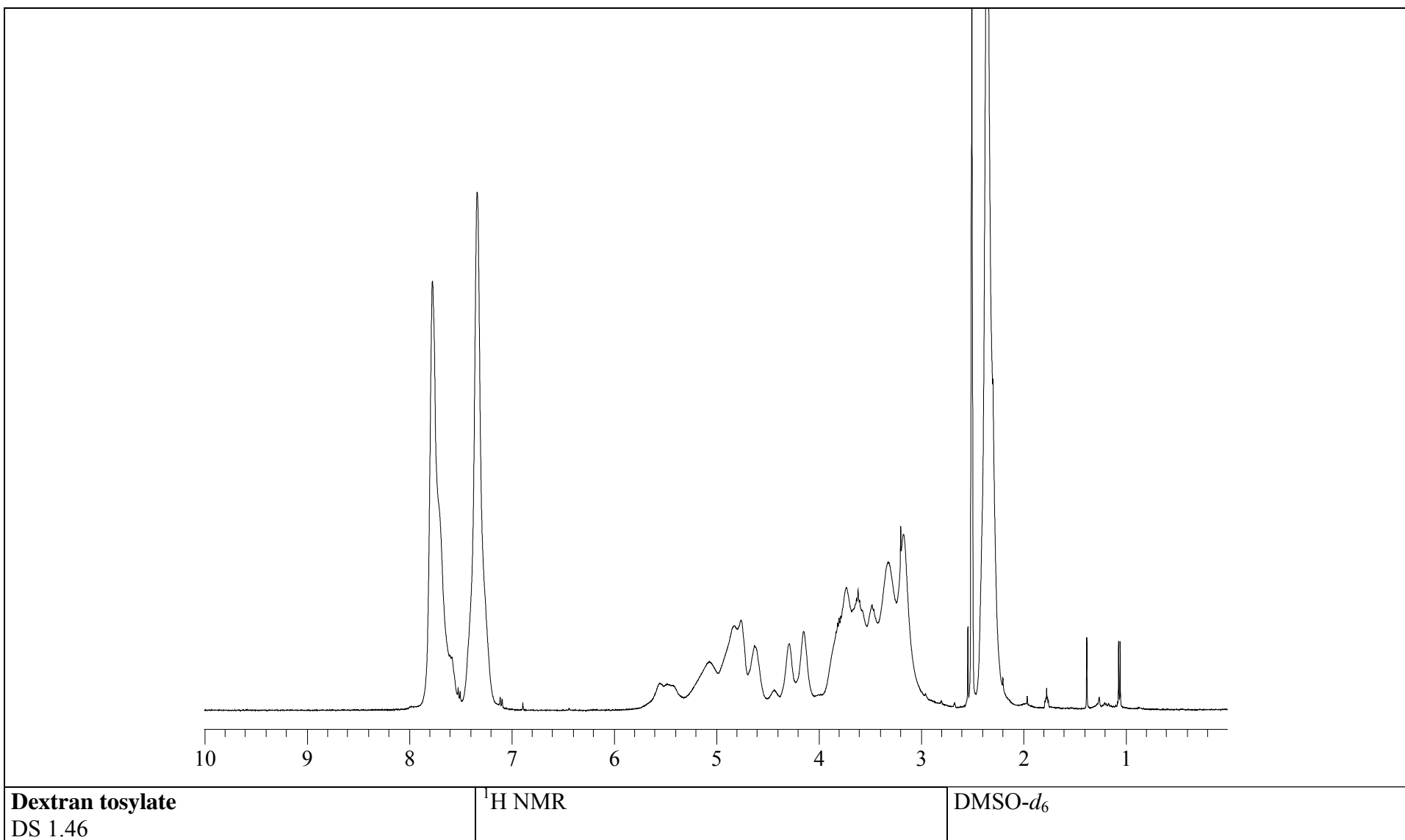
Back ↑



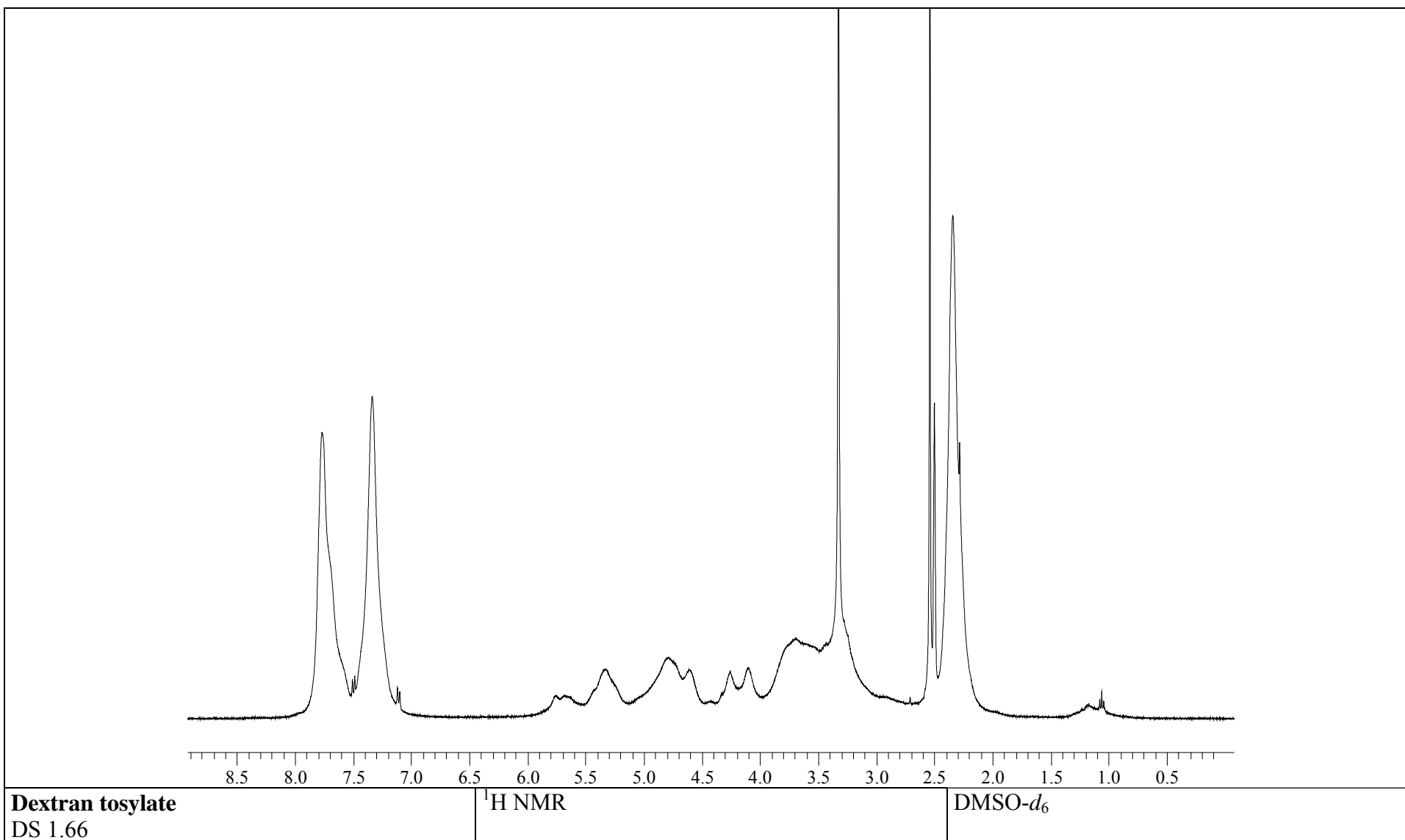
Back ↑



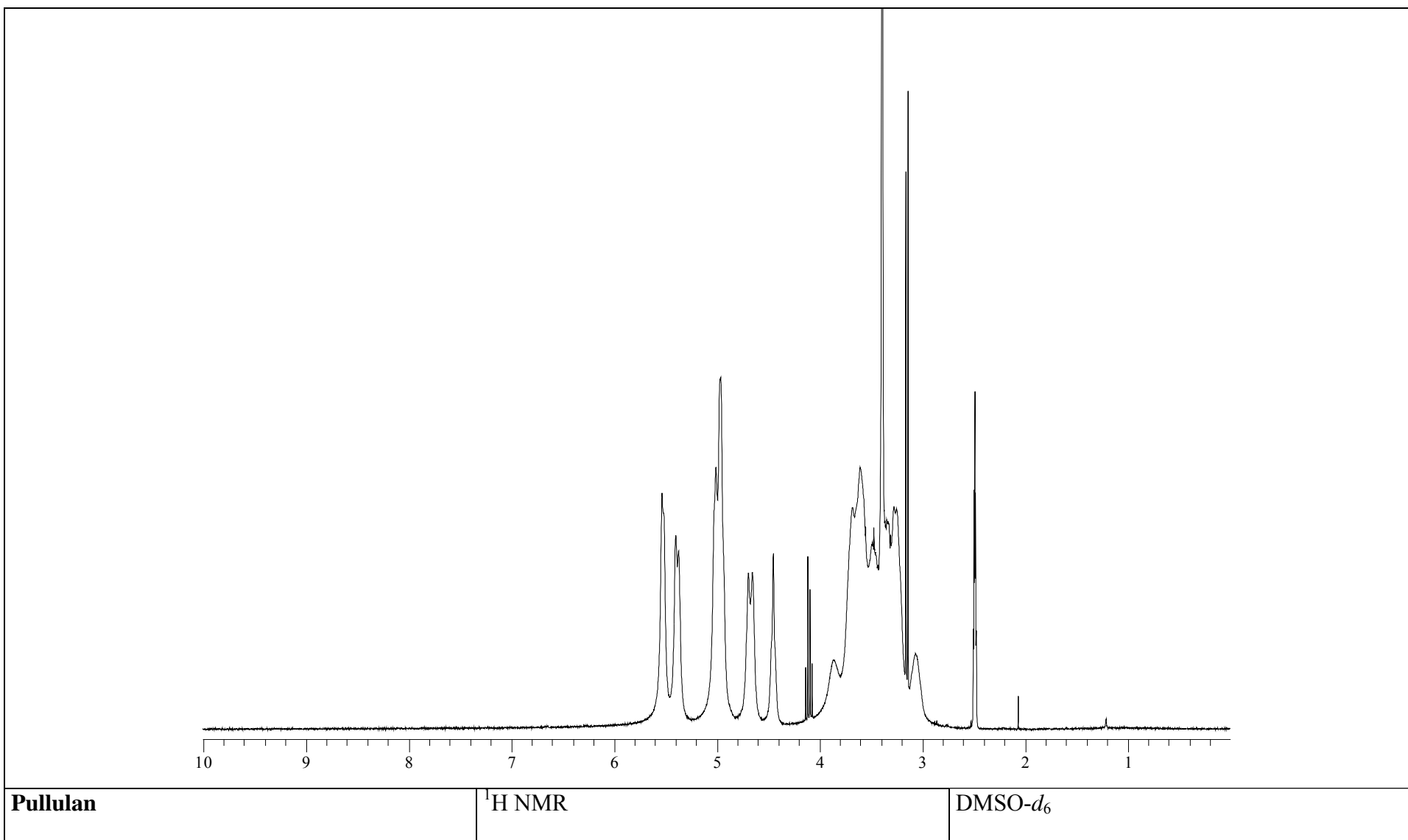
Back ↑



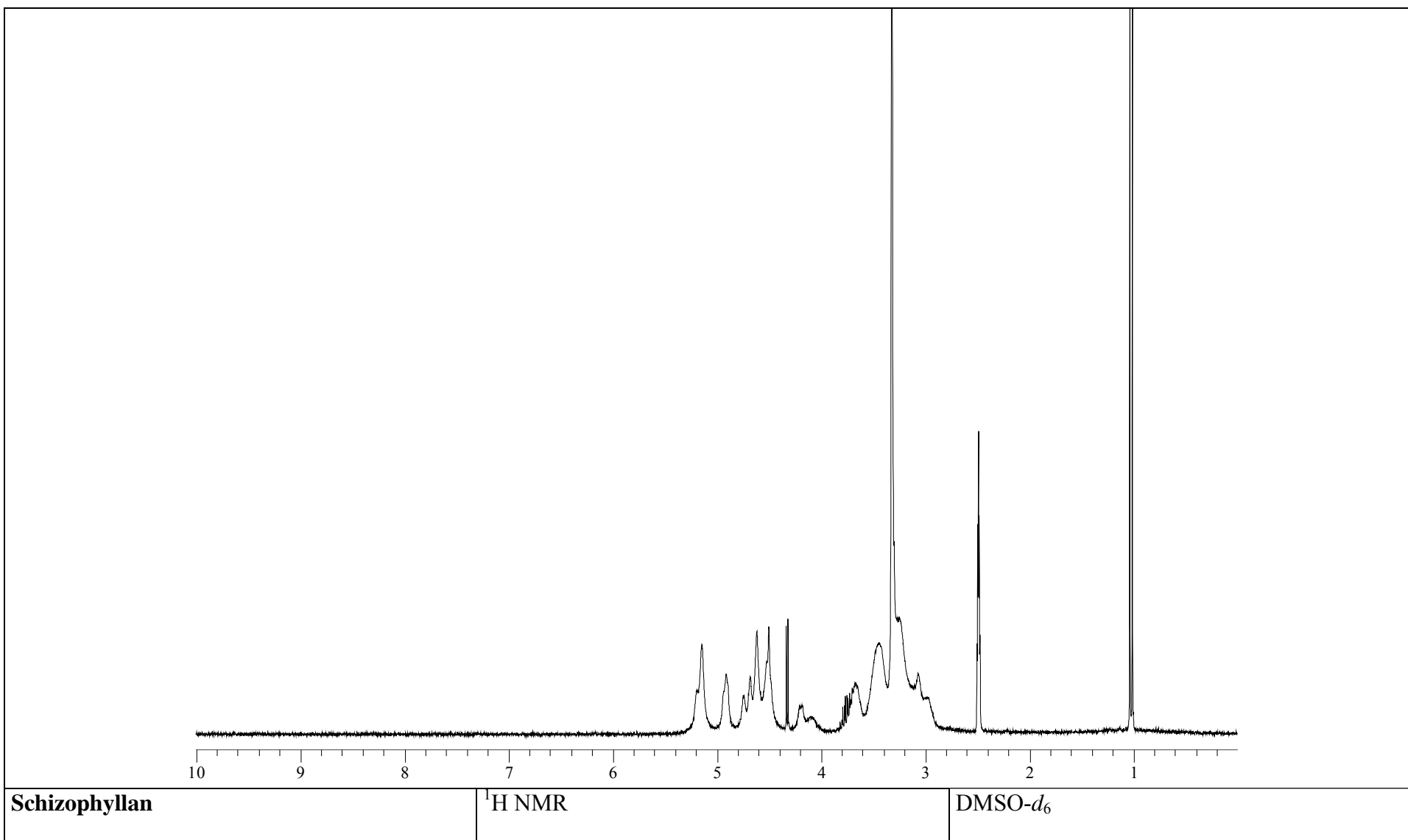
Back ↑



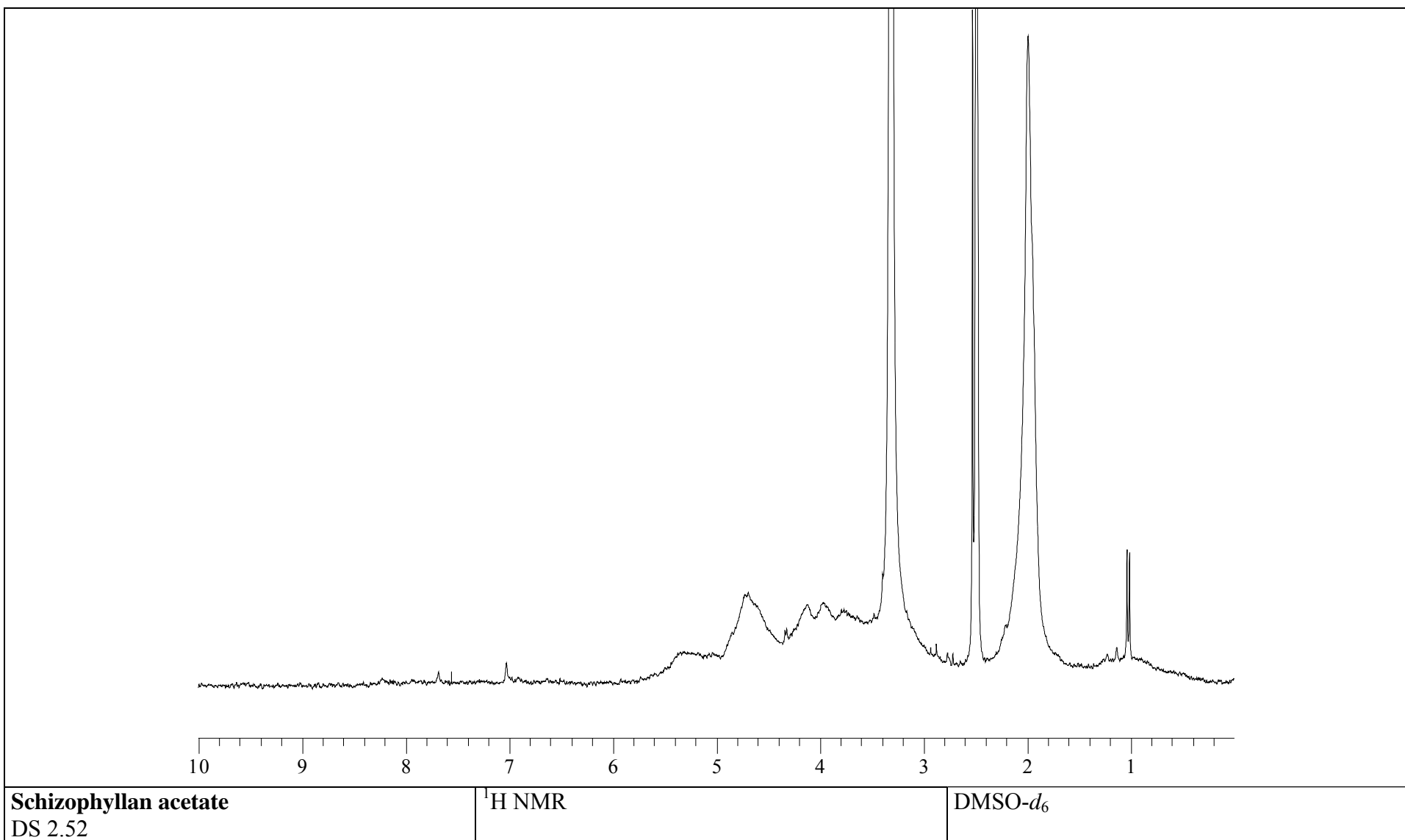
Back ↑



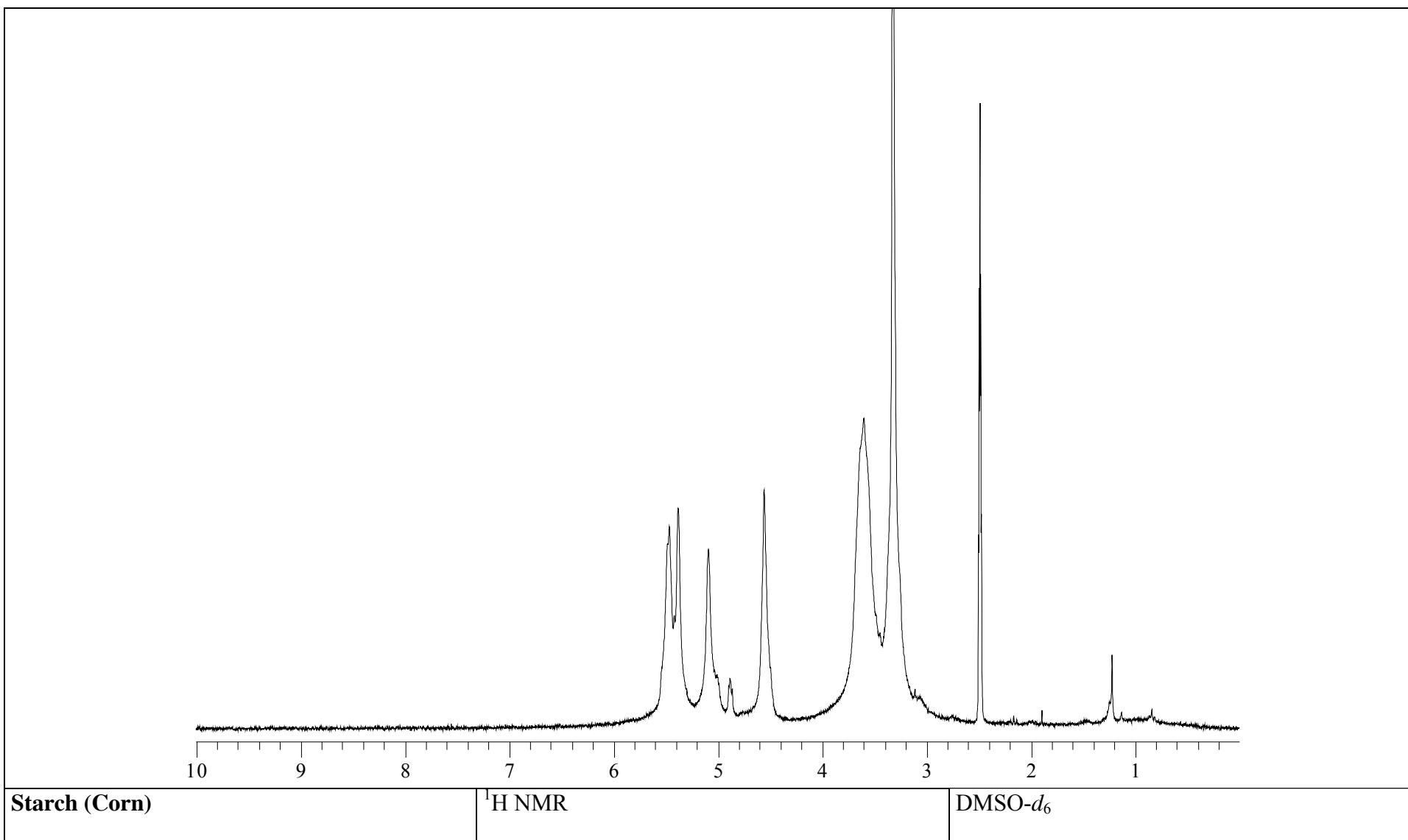
Back ↑



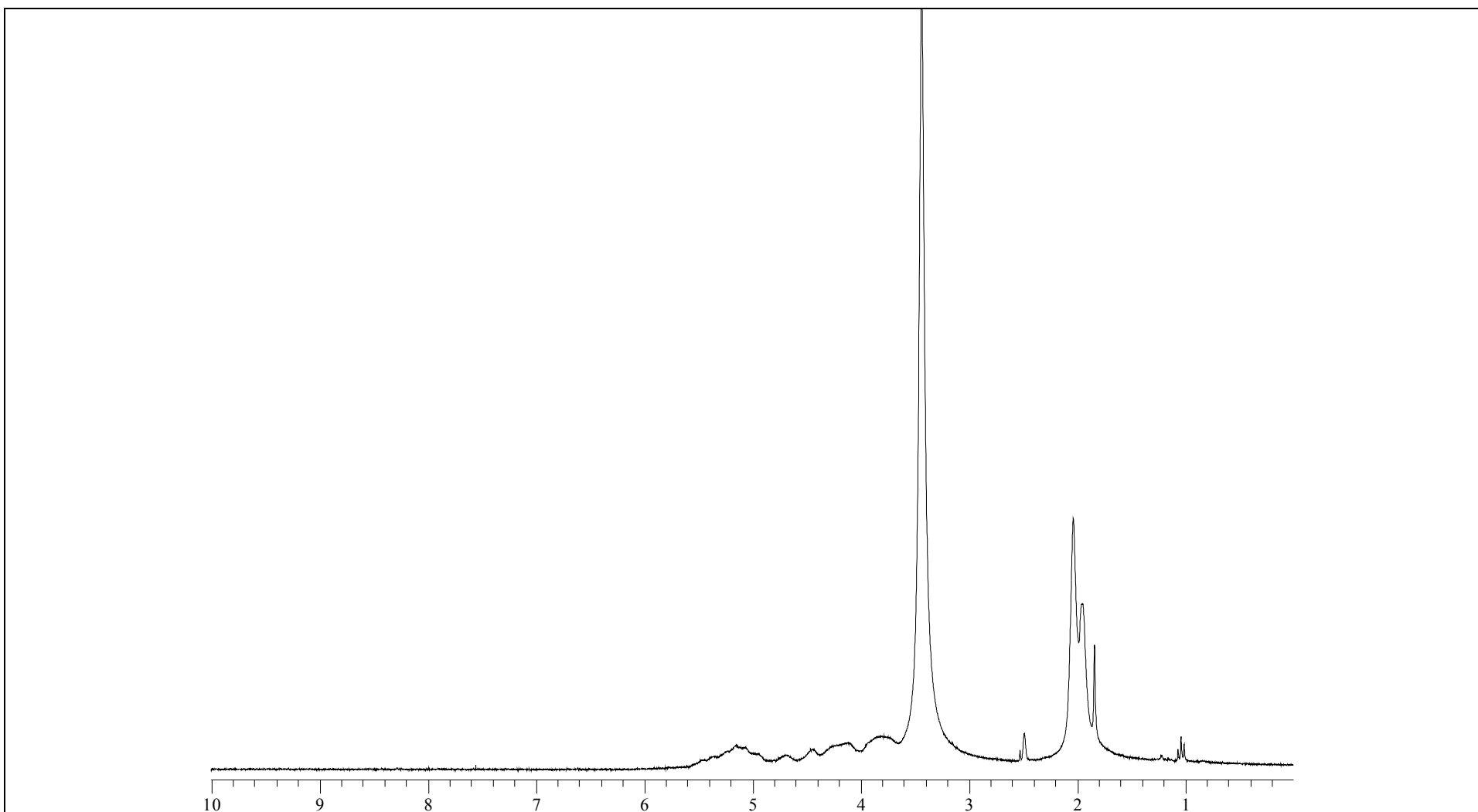
Back ↑↑



Back ↑



Back ↑



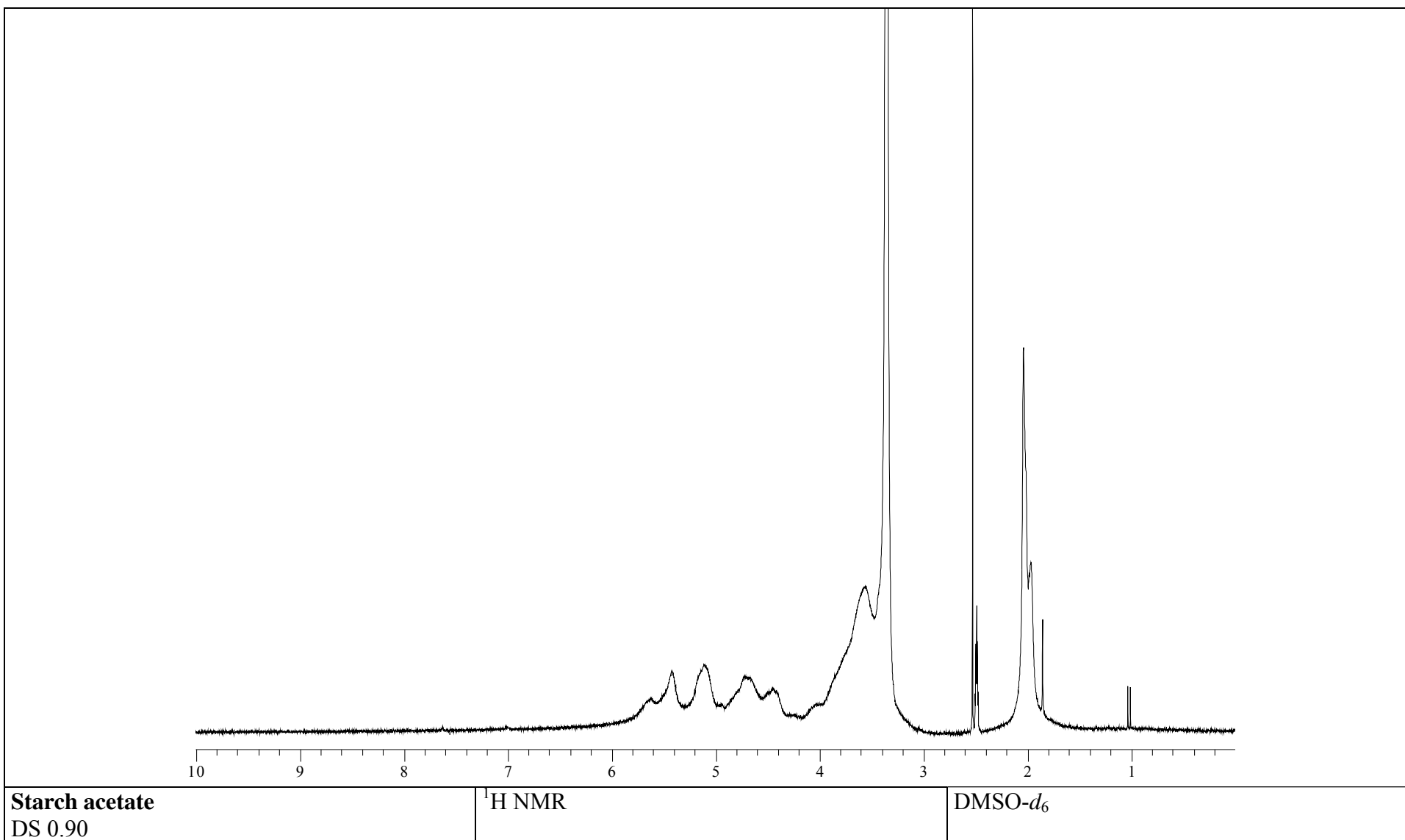
Starch acetate

DS 2.70

Back ↑

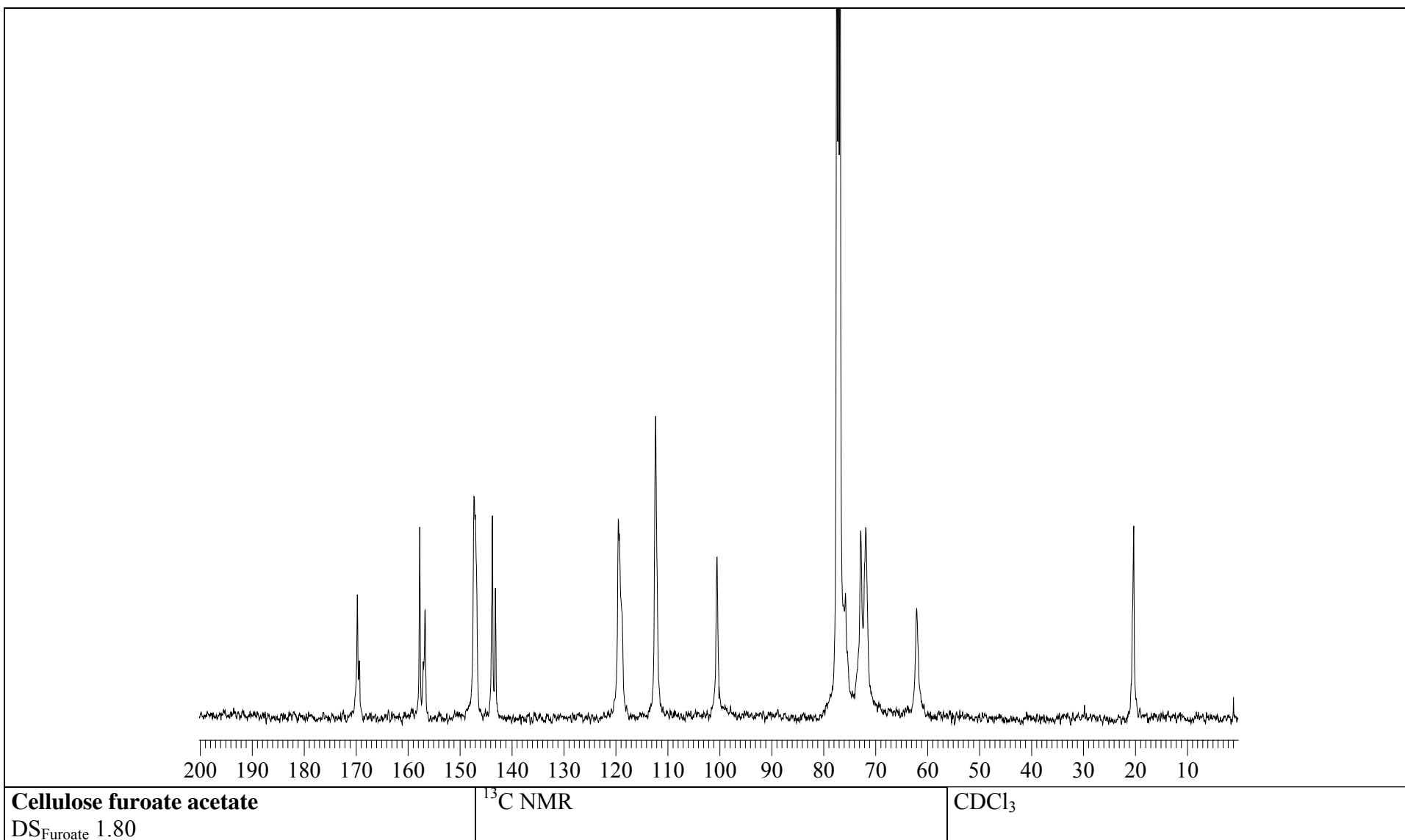
¹H NMR

DMSO-*d*₆



Back ↑

^{13}C NMR Spectra



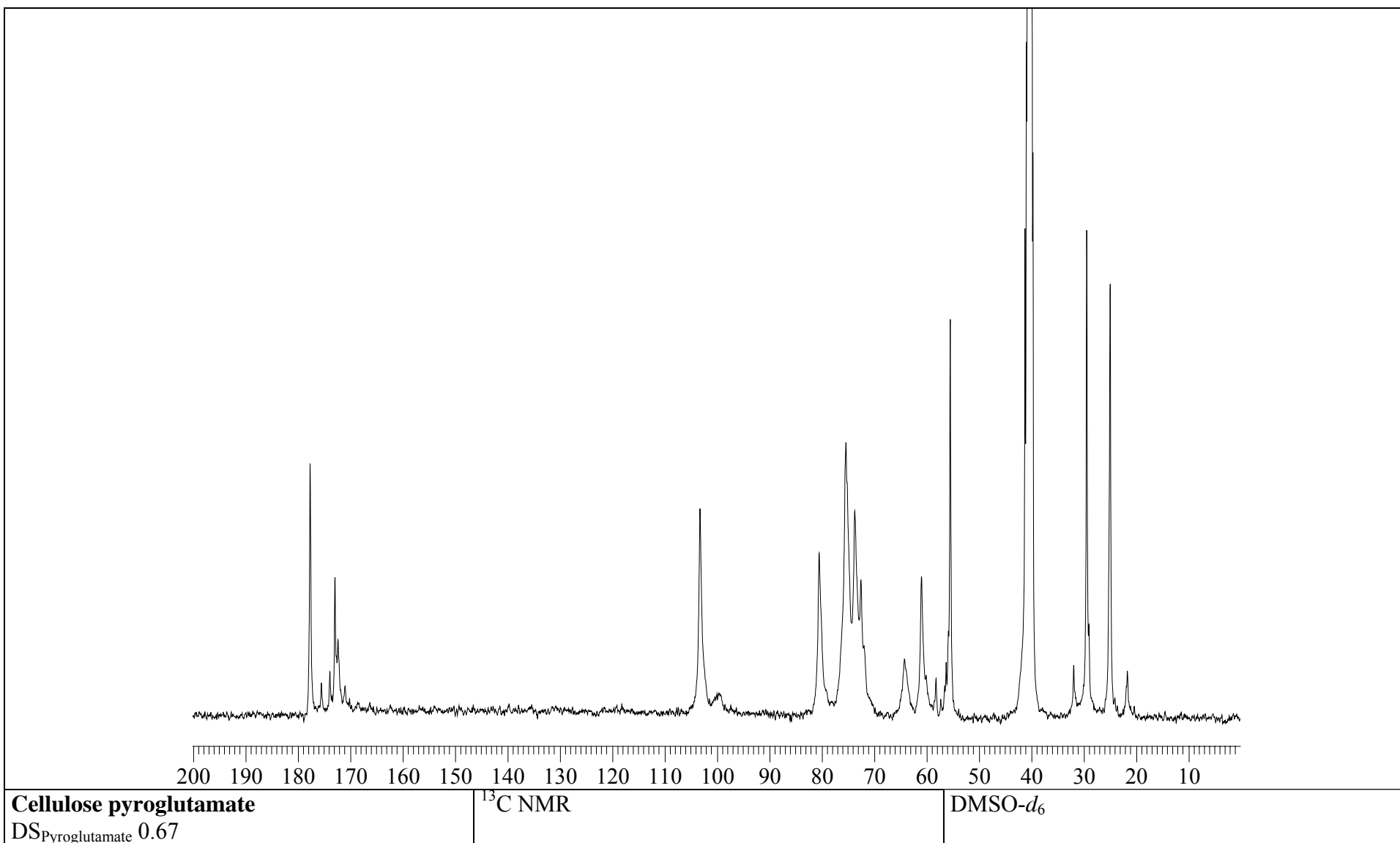
Cellulose furoate acetate

DS_{Furoate} 1.80

Back ↑

^{13}C NMR

CDCl_3



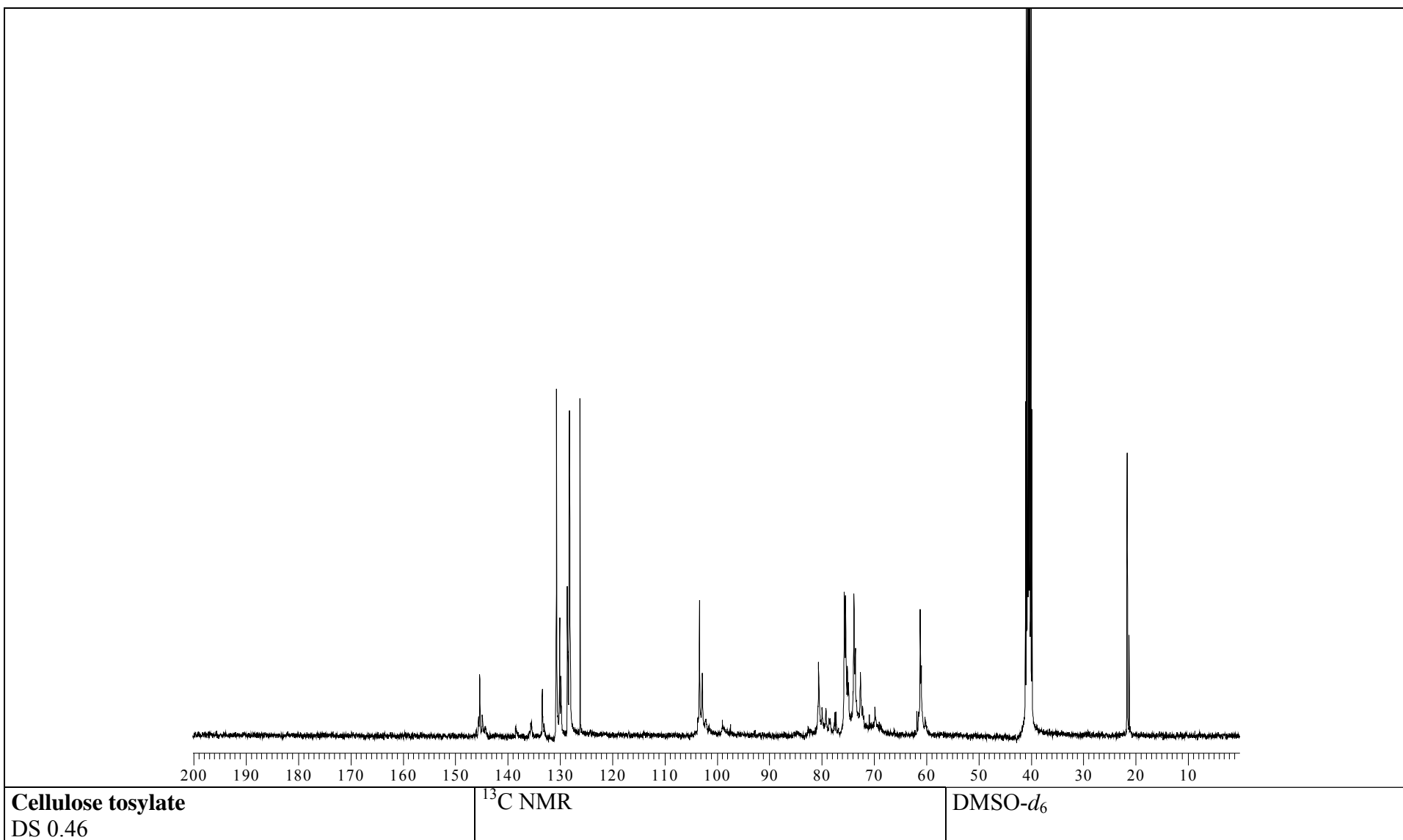
Cellulose pyroglutamate

DS_{Pyroglutamate} 0.67

Back ↑

¹³C NMR

DMSO-d₆

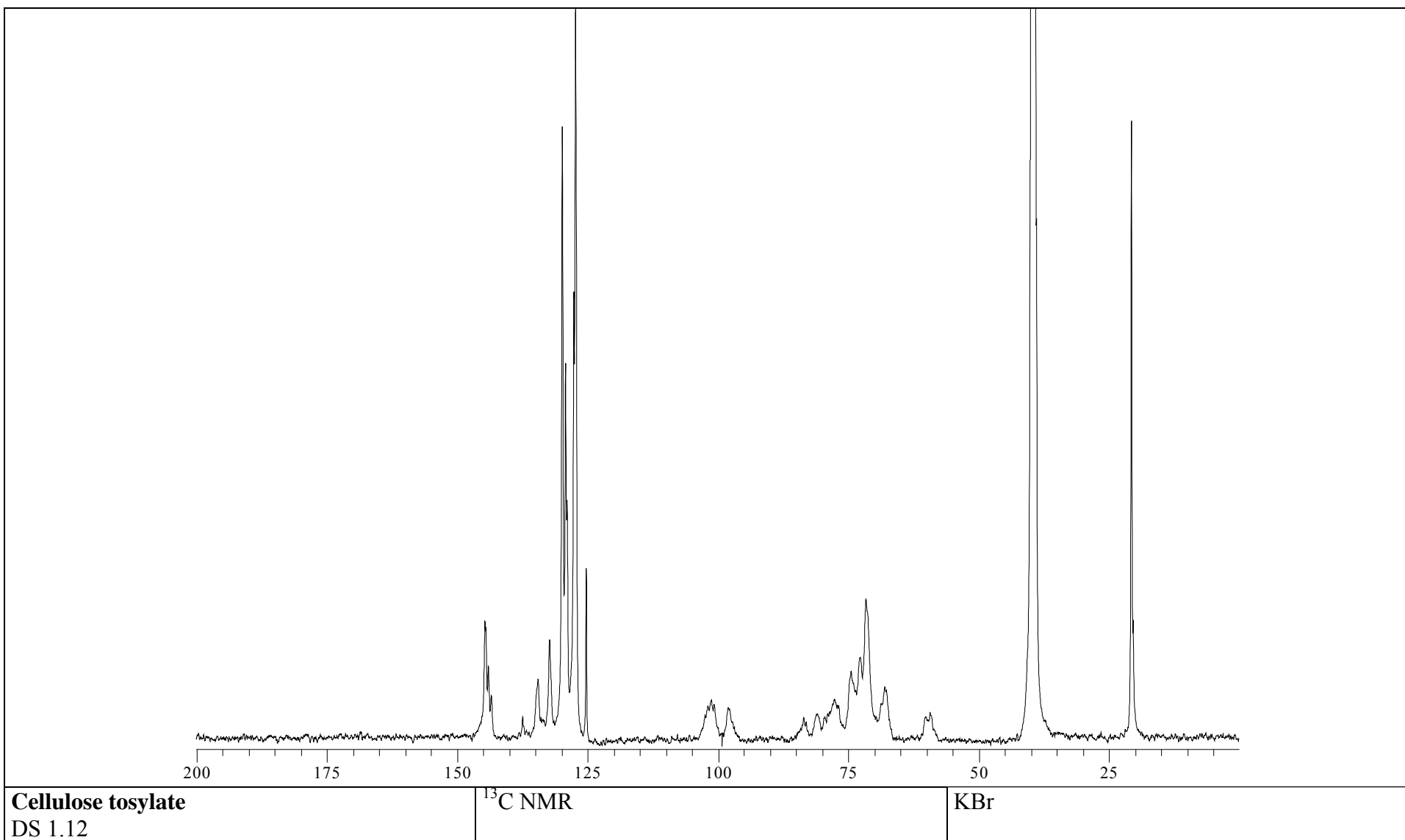


Cellulose tosylate
DS 0.46

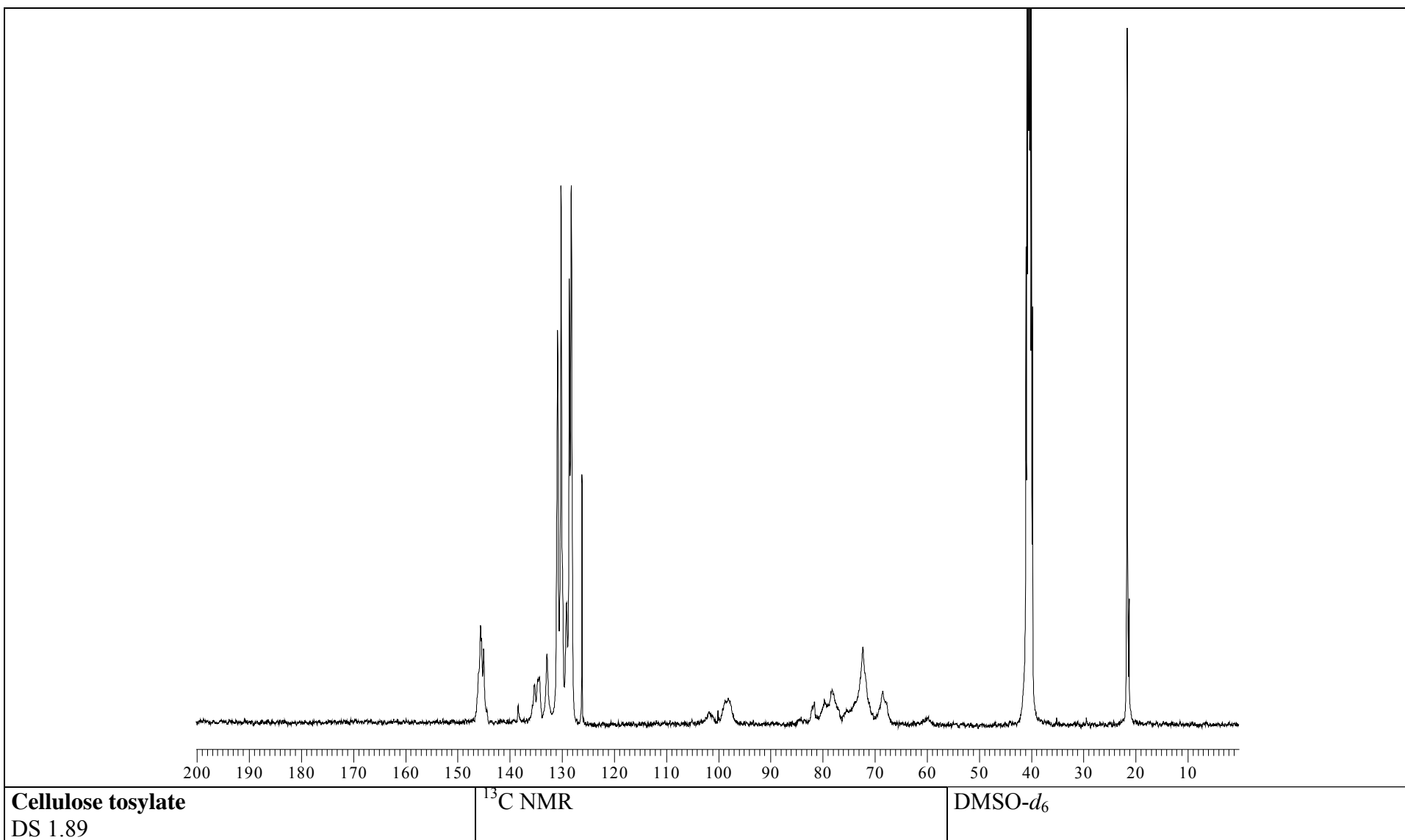
¹³C NMR

DMSO-*d*₆

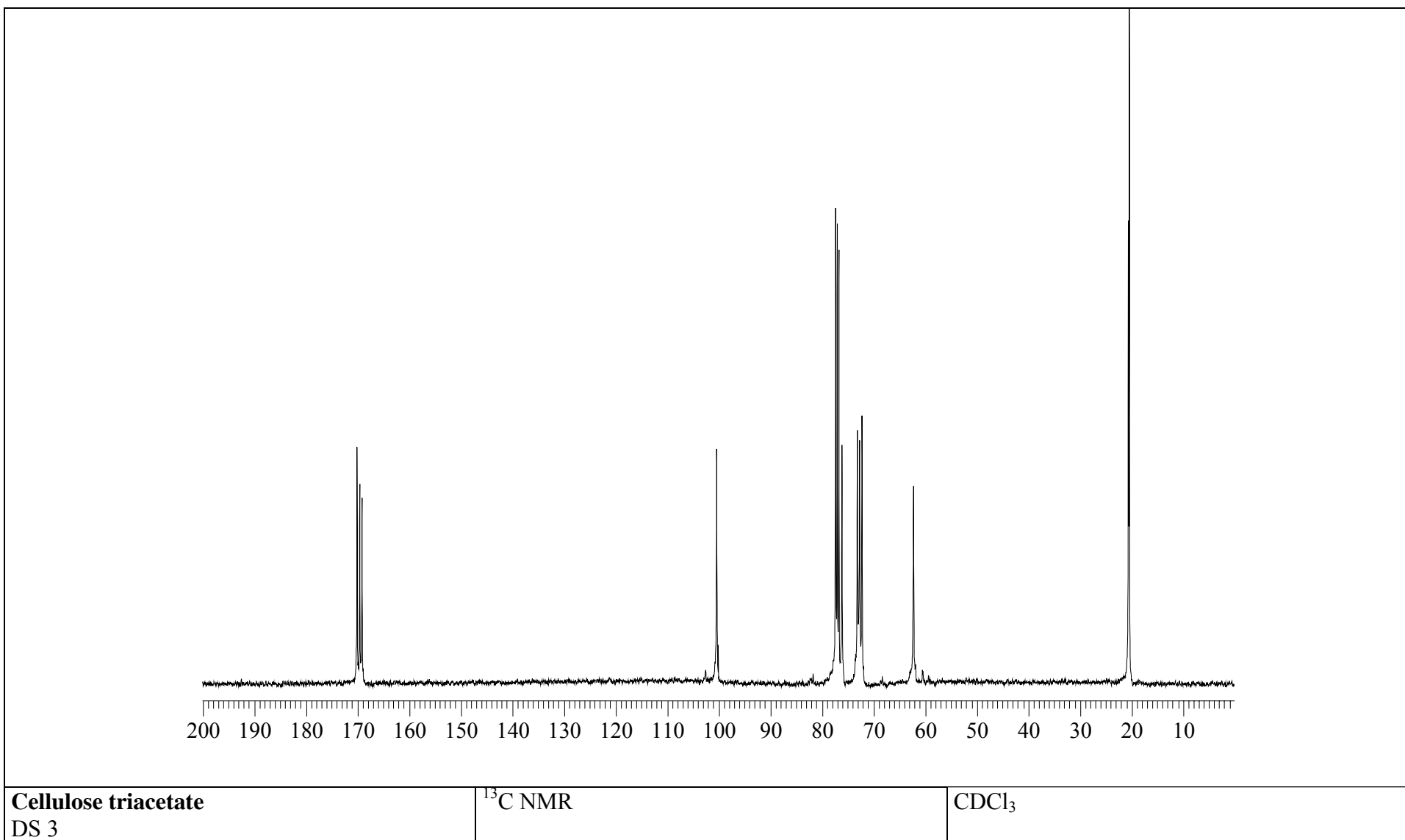
Back ↑



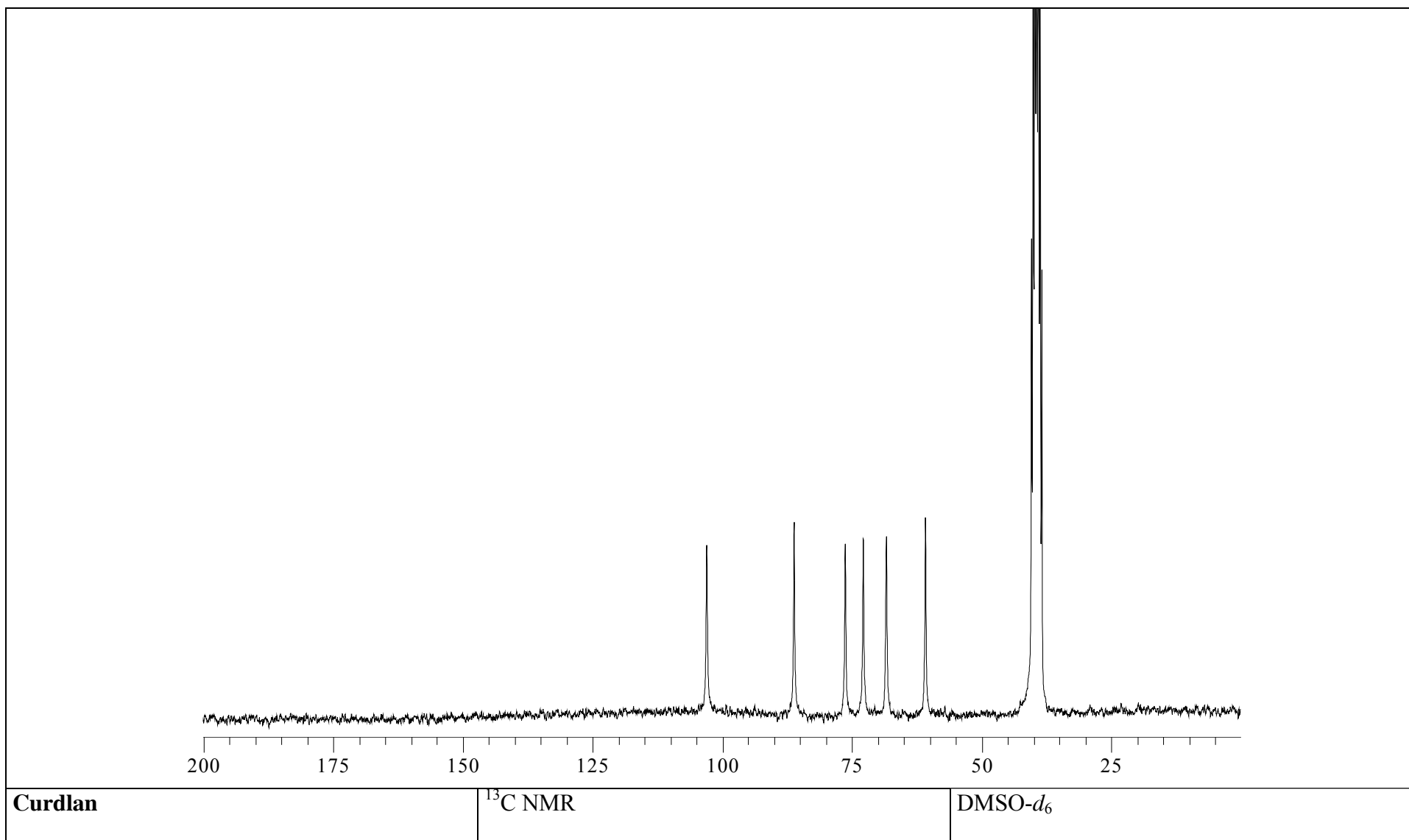
Back ↑



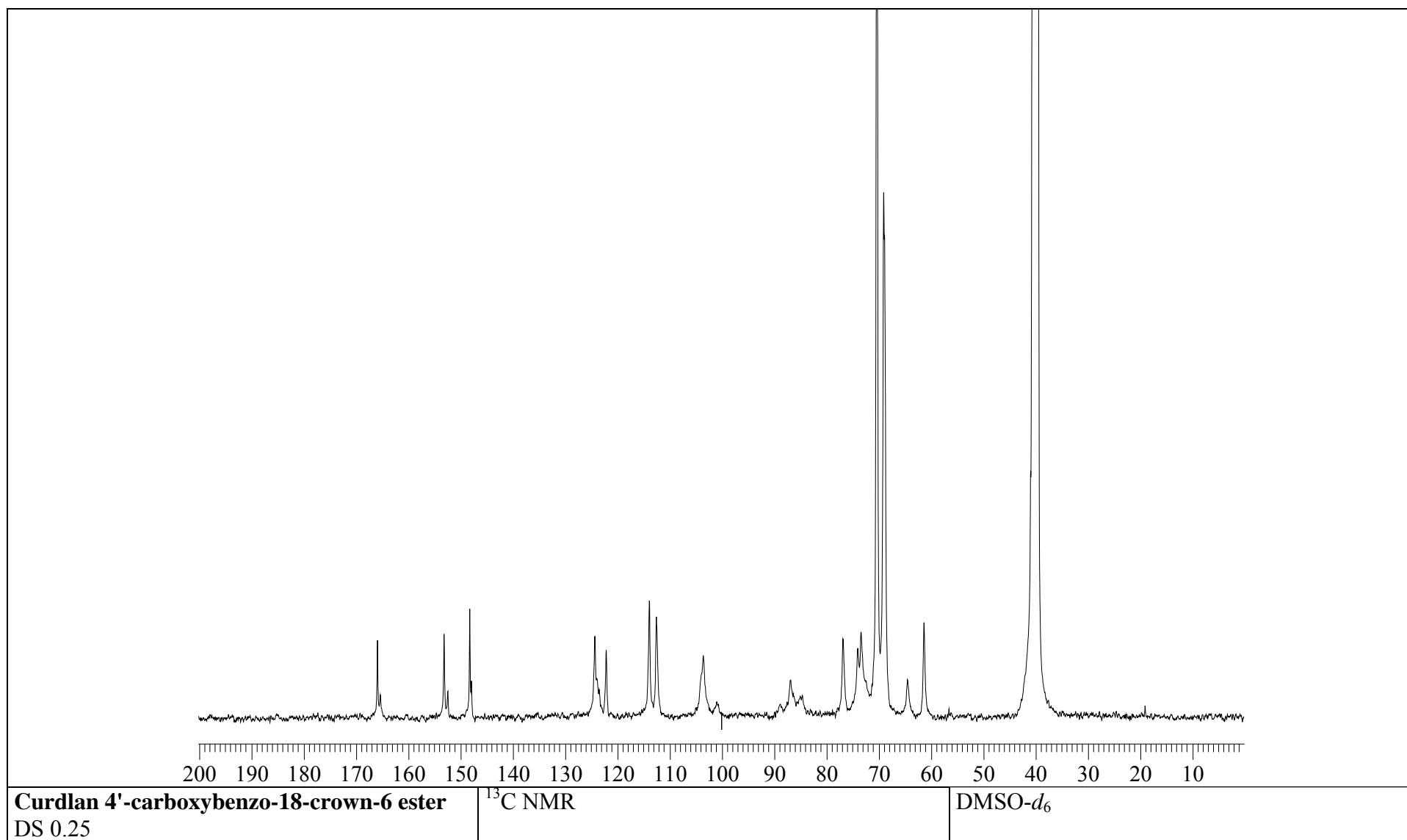
Back ↑



Back ↑



Back ↑



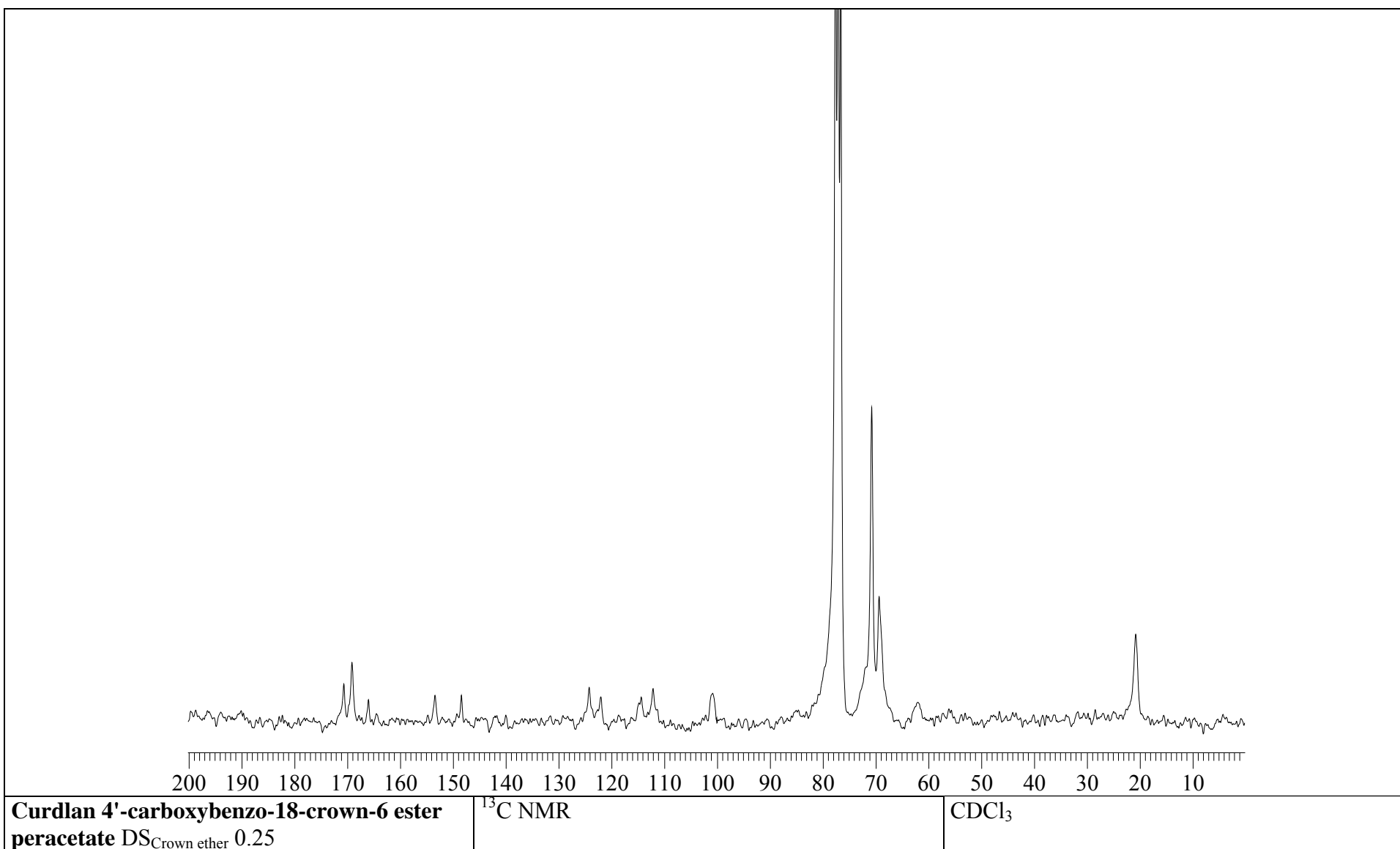
Curdlan 4'-carboxybenzo-18-crown-6 ester

DS 0.25

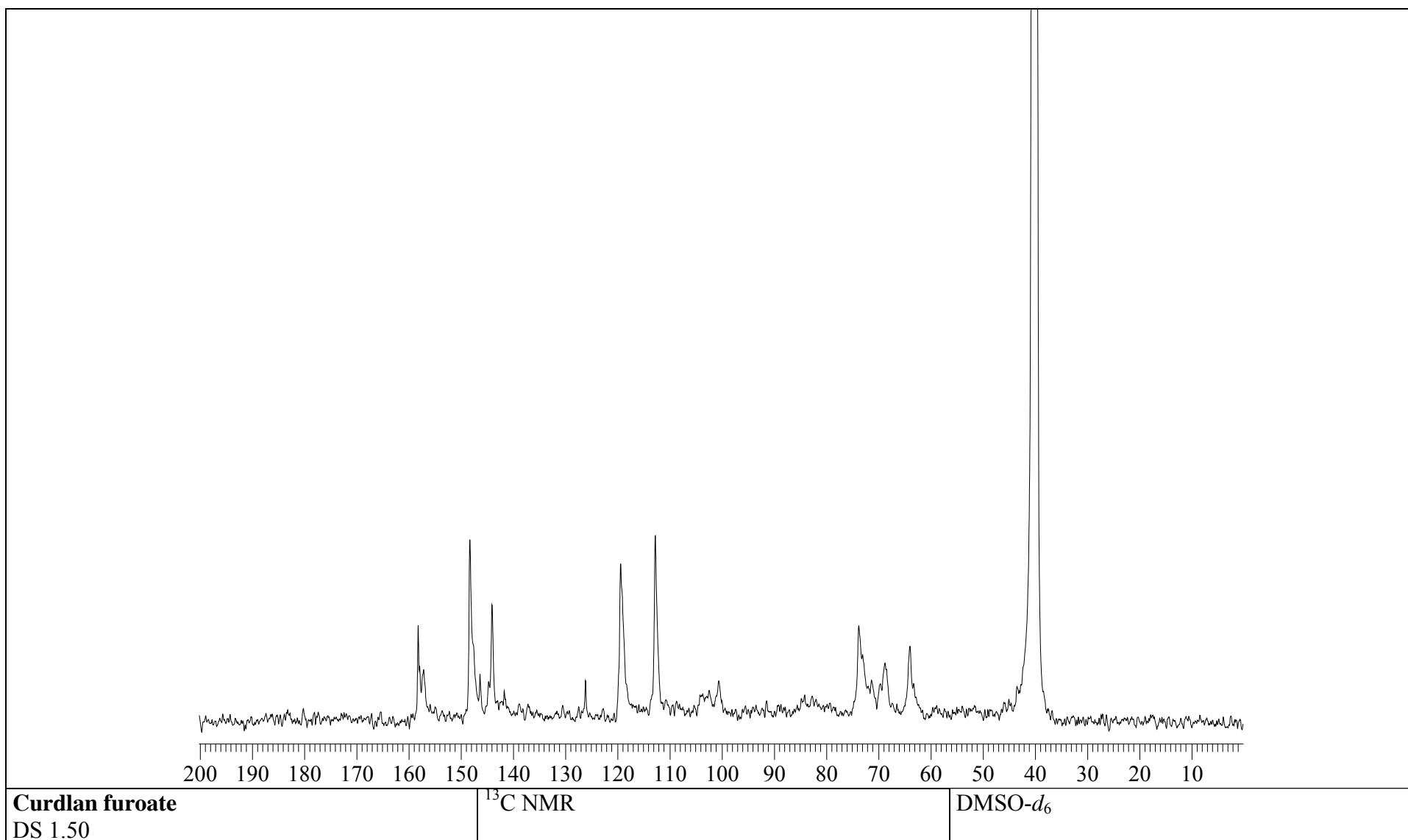
^{13}C NMR

$\text{DMSO}-d_6$

Back ↑



Back ↑

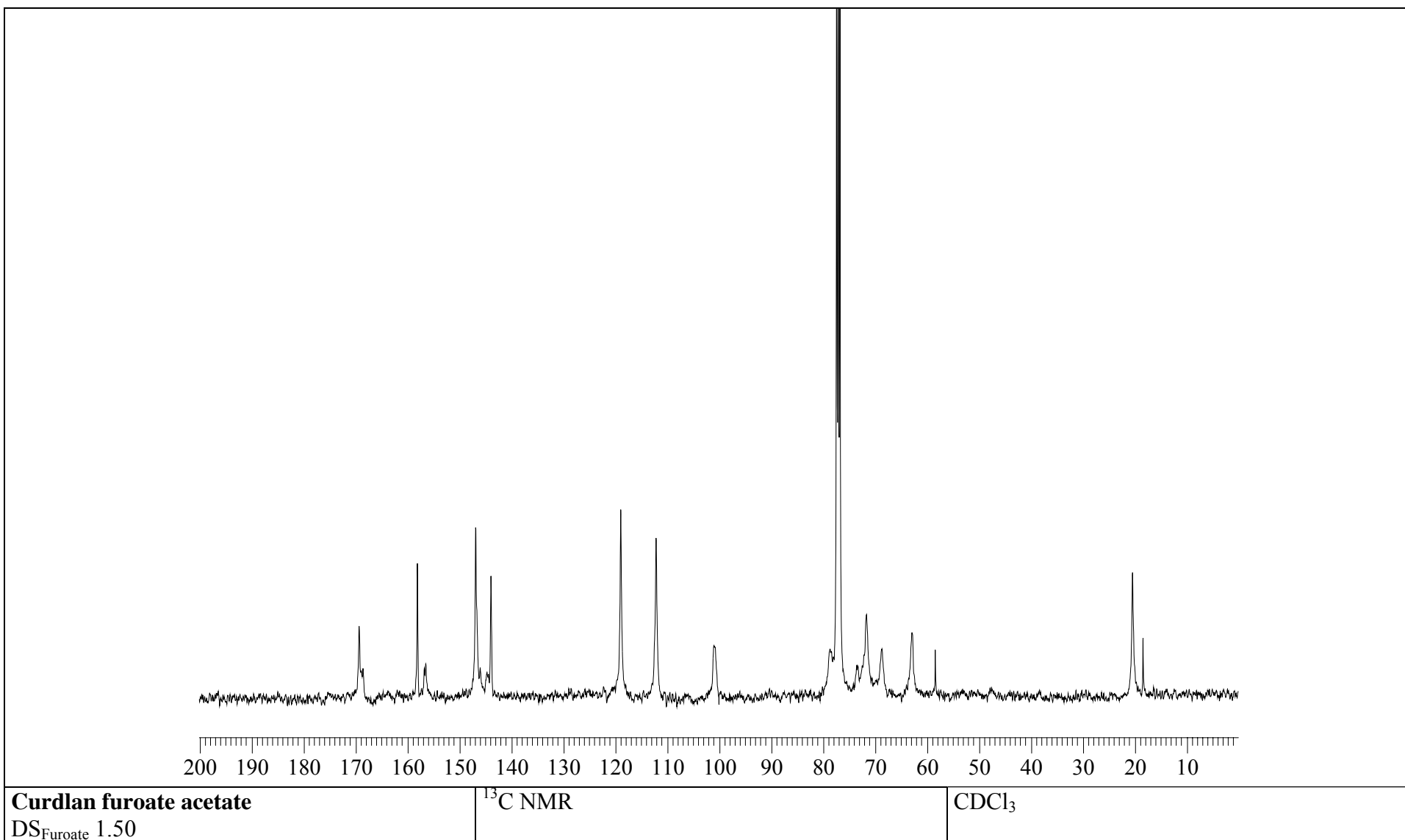


Curdlan furoate
DS 1.50

^{13}C NMR

DMSO- d_6

Back ↑



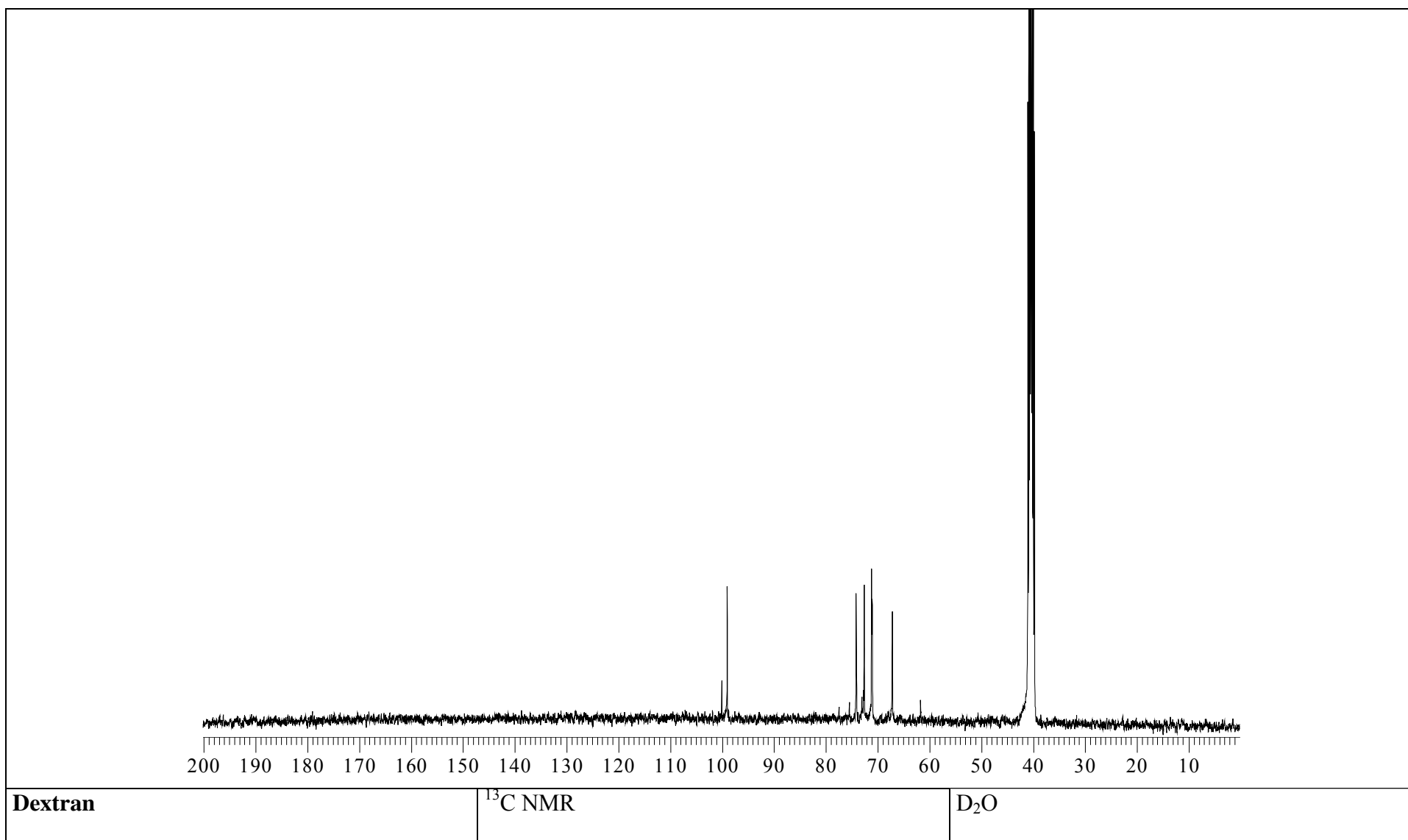
Curdlan furoate acetate

DS_{Furoate} 1.50

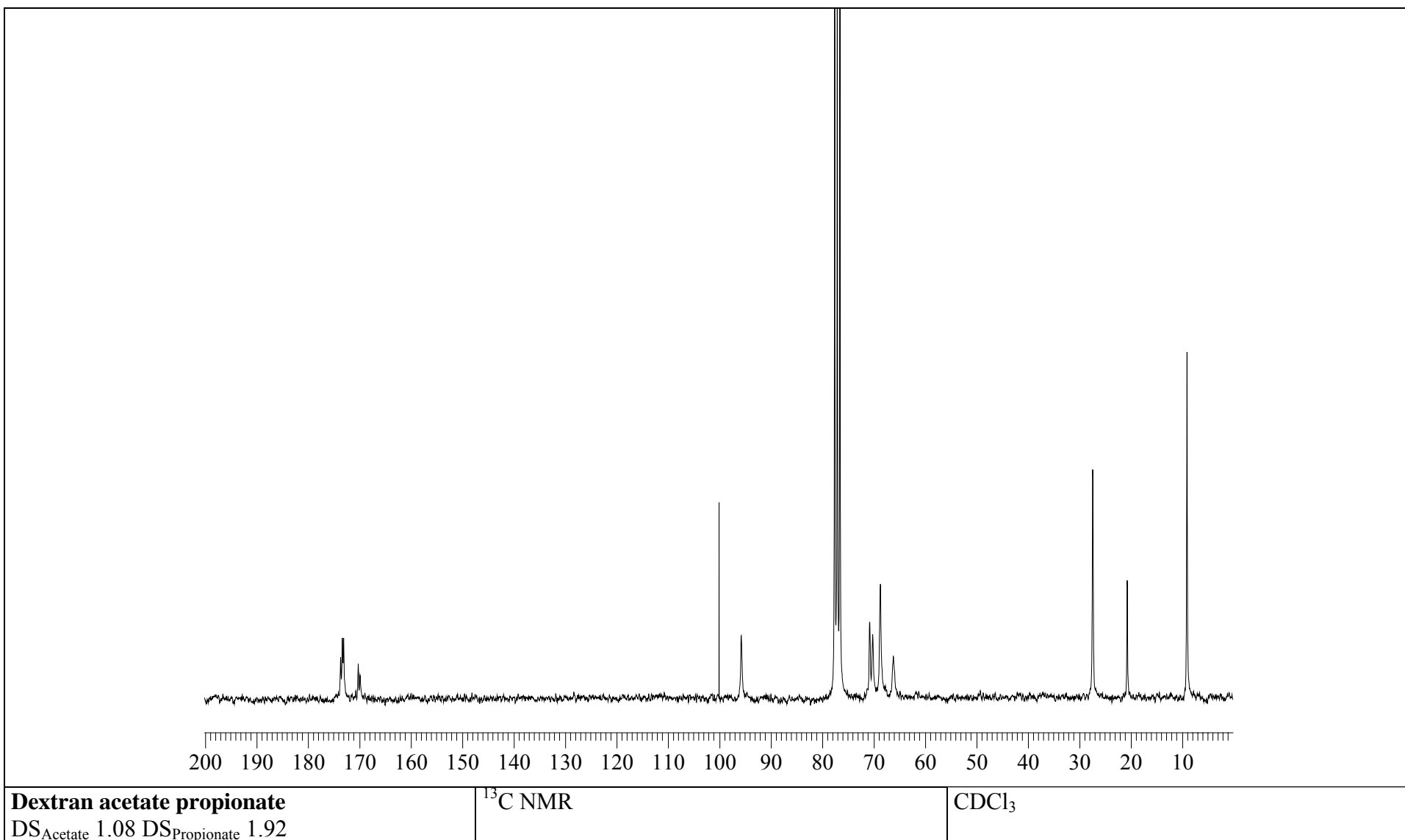
Back ↑

^{13}C NMR

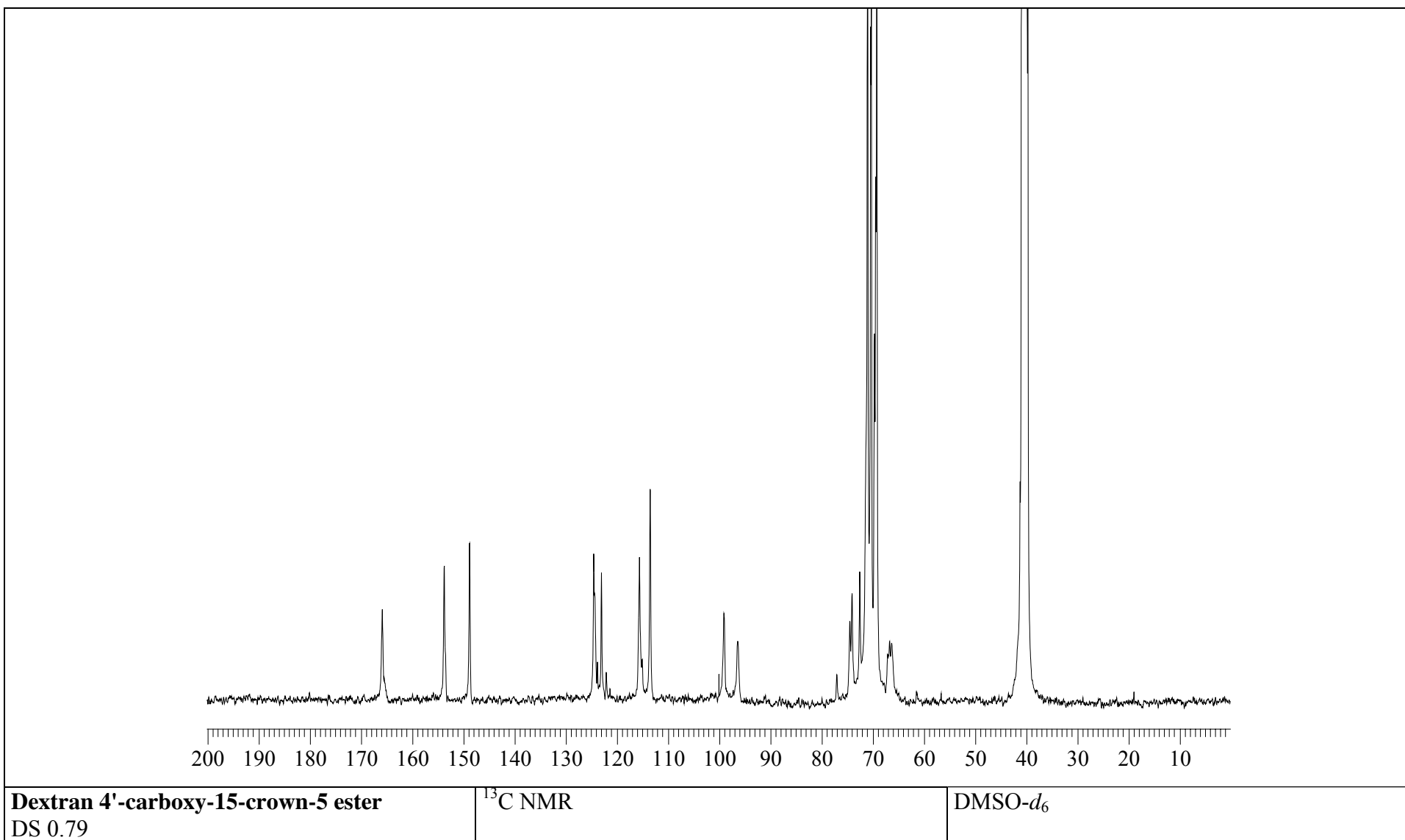
CDCl_3



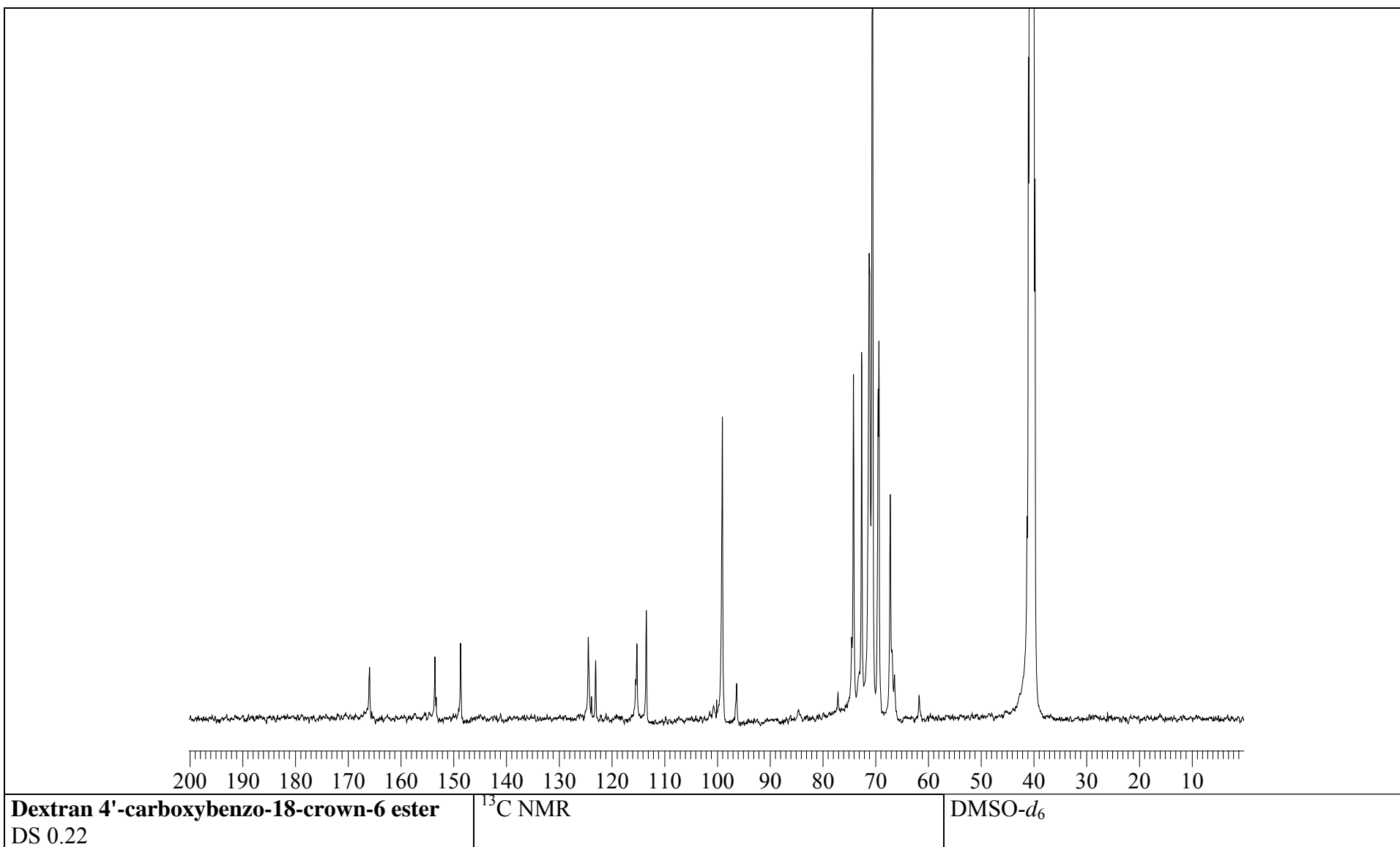
Back ↑



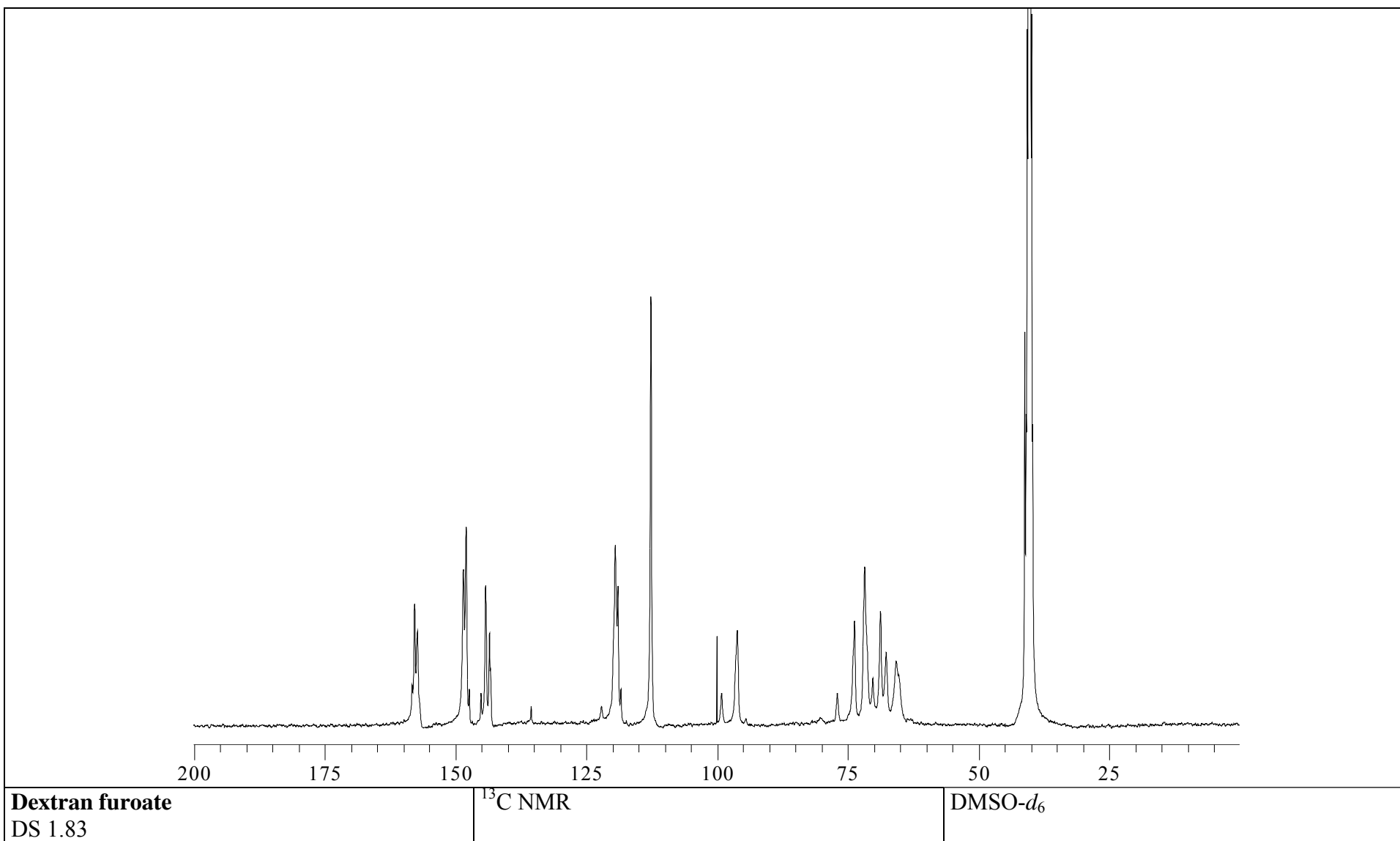
Back ↑



Back ↑



Back ↑

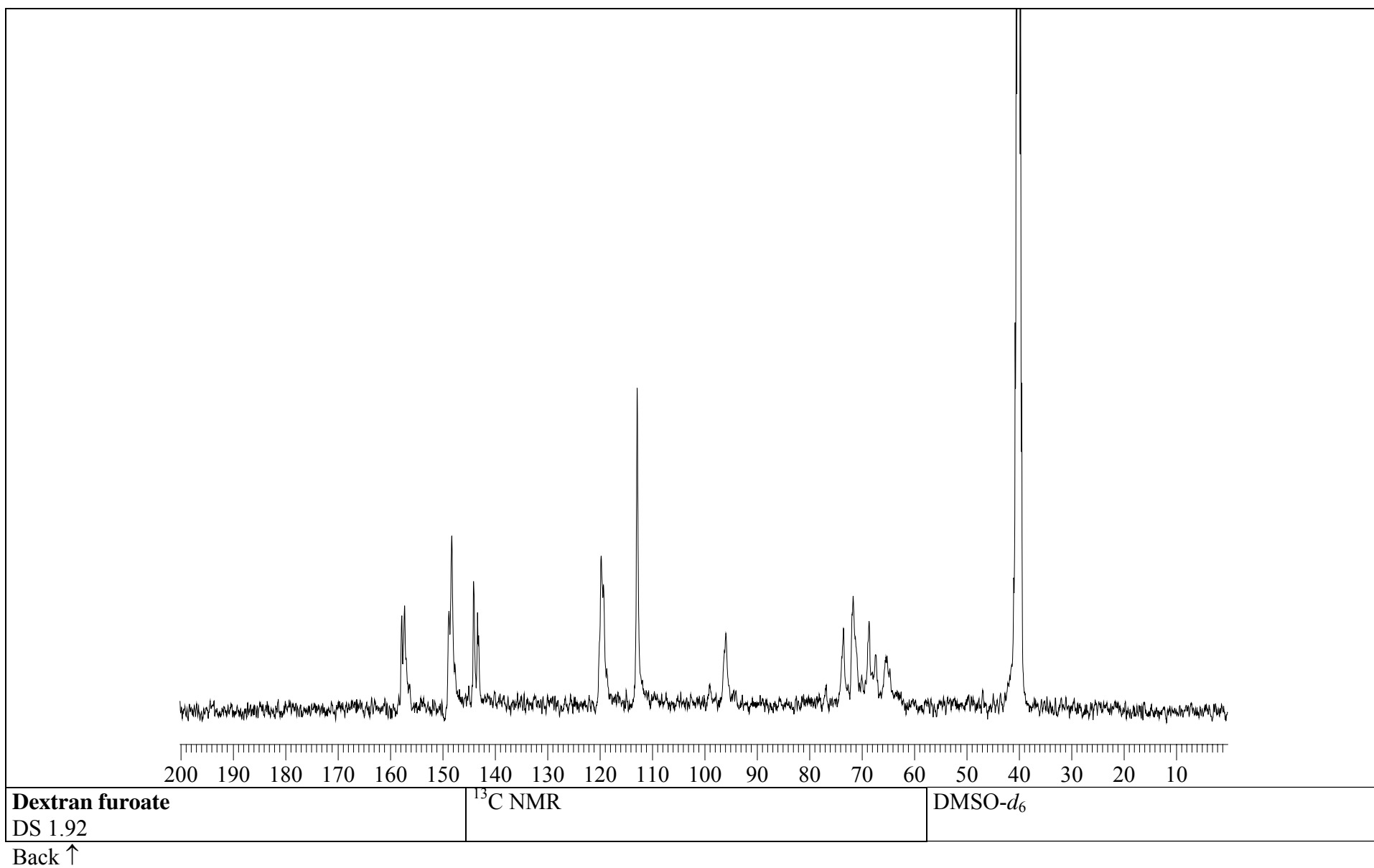


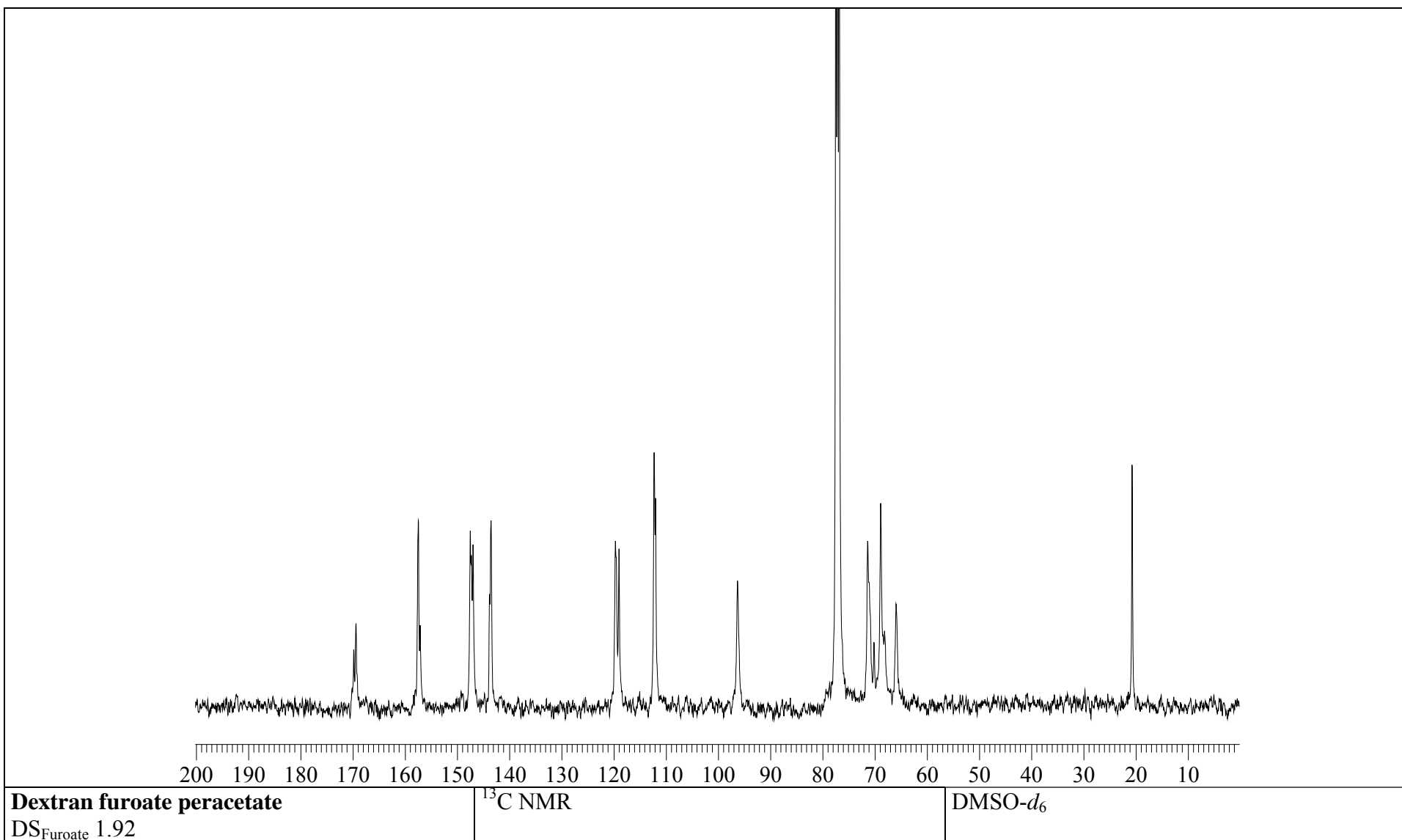
Dextran furoate
DS 1.83

¹³C NMR

DMSO-*d*₆

Back ↑





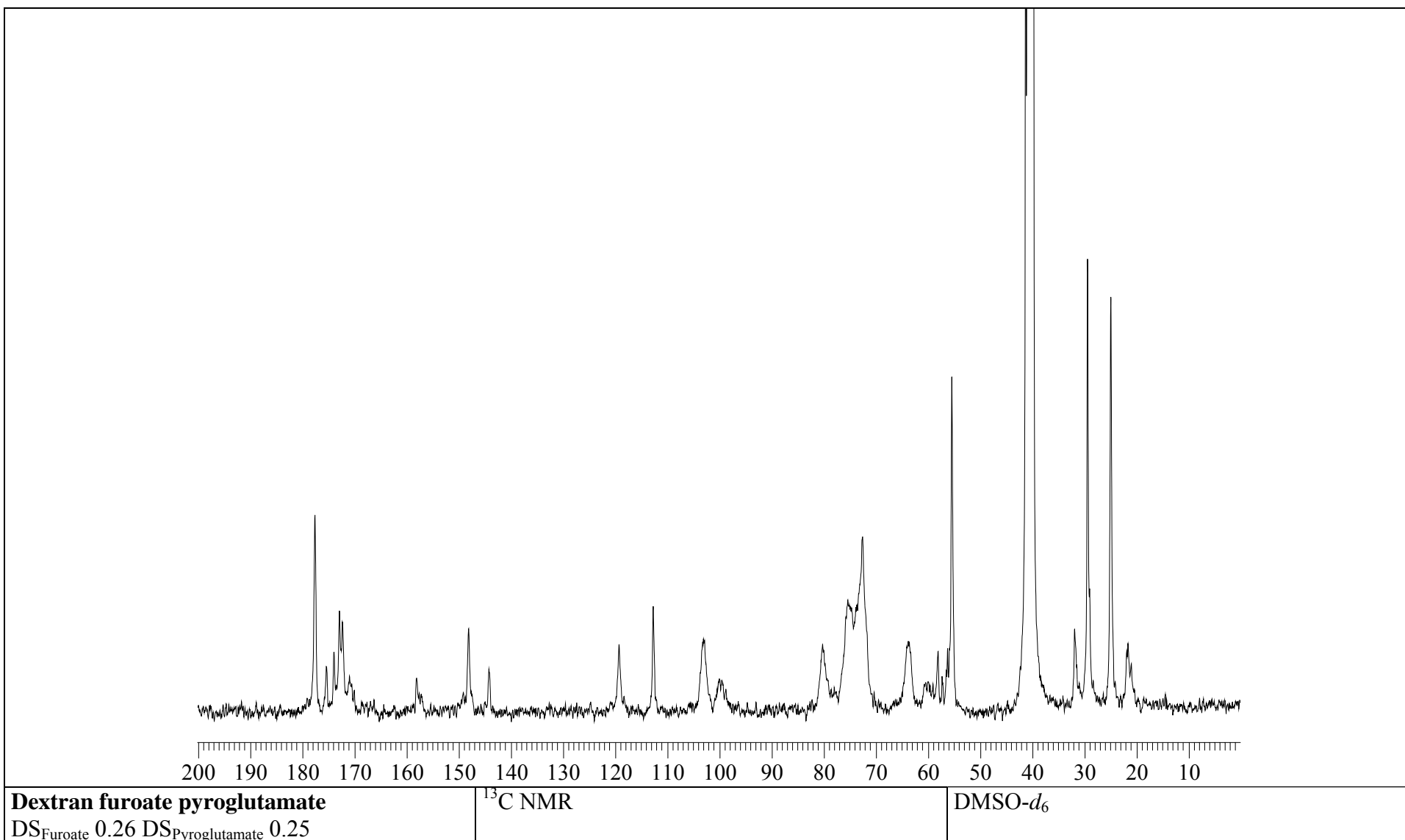
Dextran furoate peracetate

DS_{Furoate} 1.92

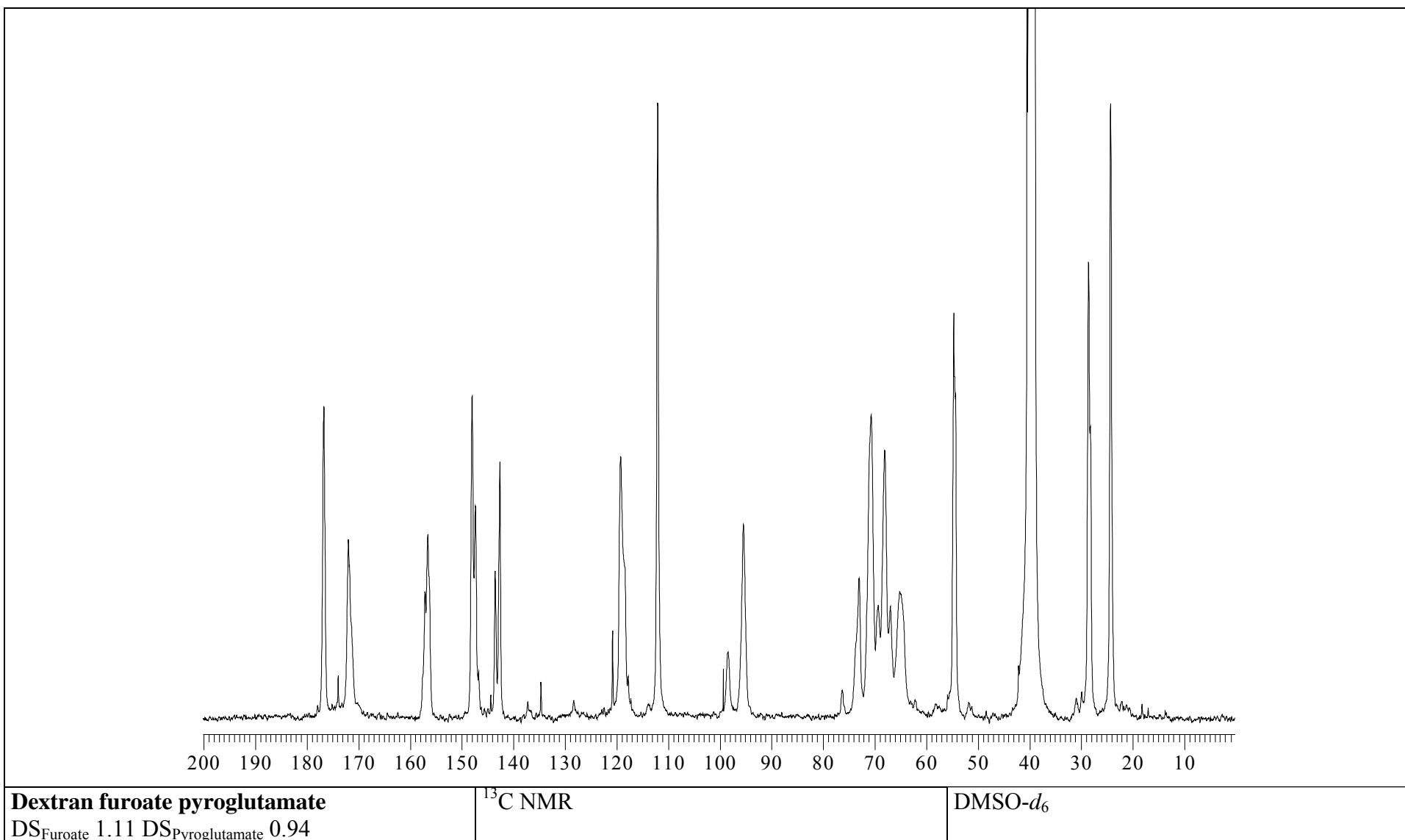
¹³C NMR

DMSO-*d*₆

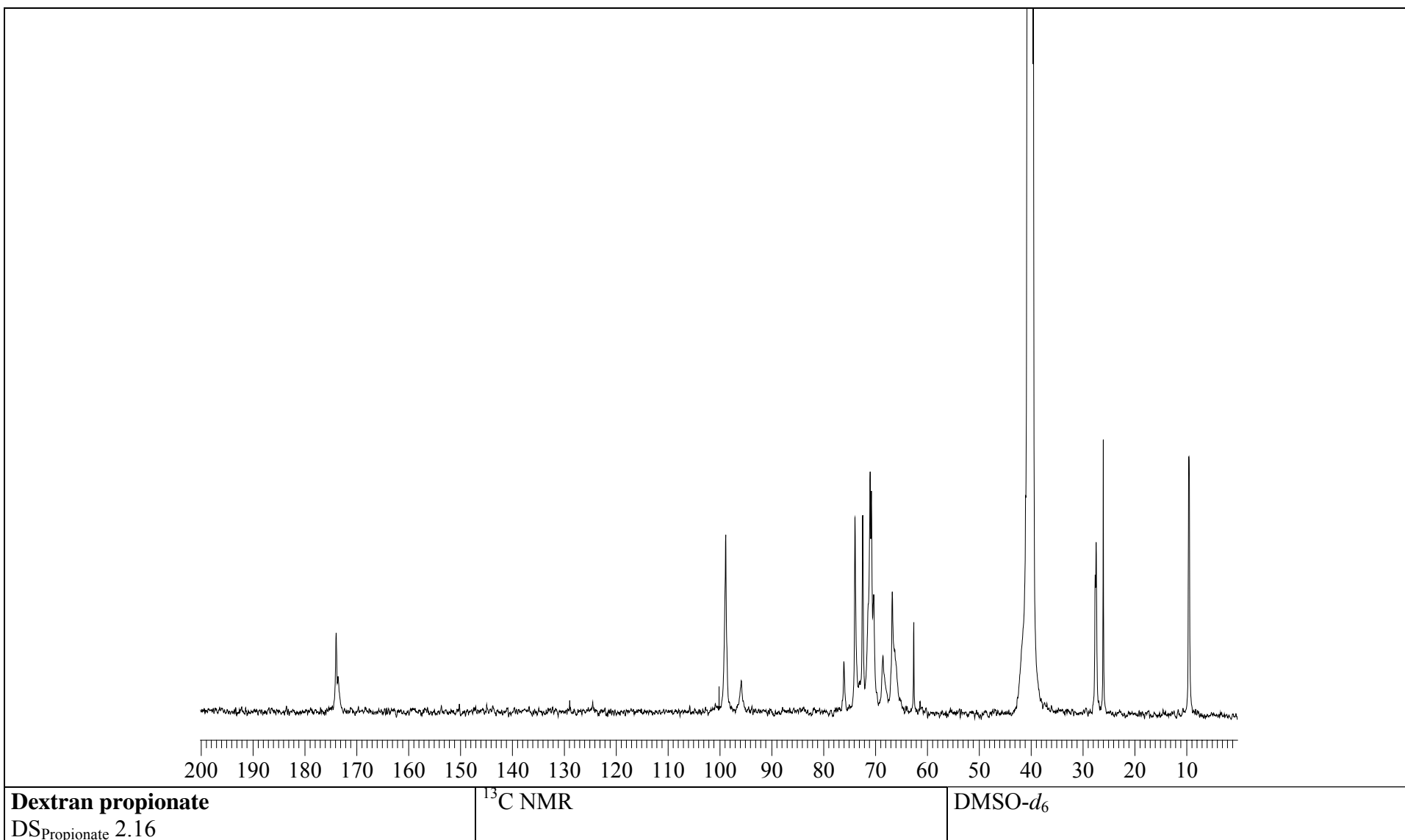
Back ↑



Back ↑



Back ↑



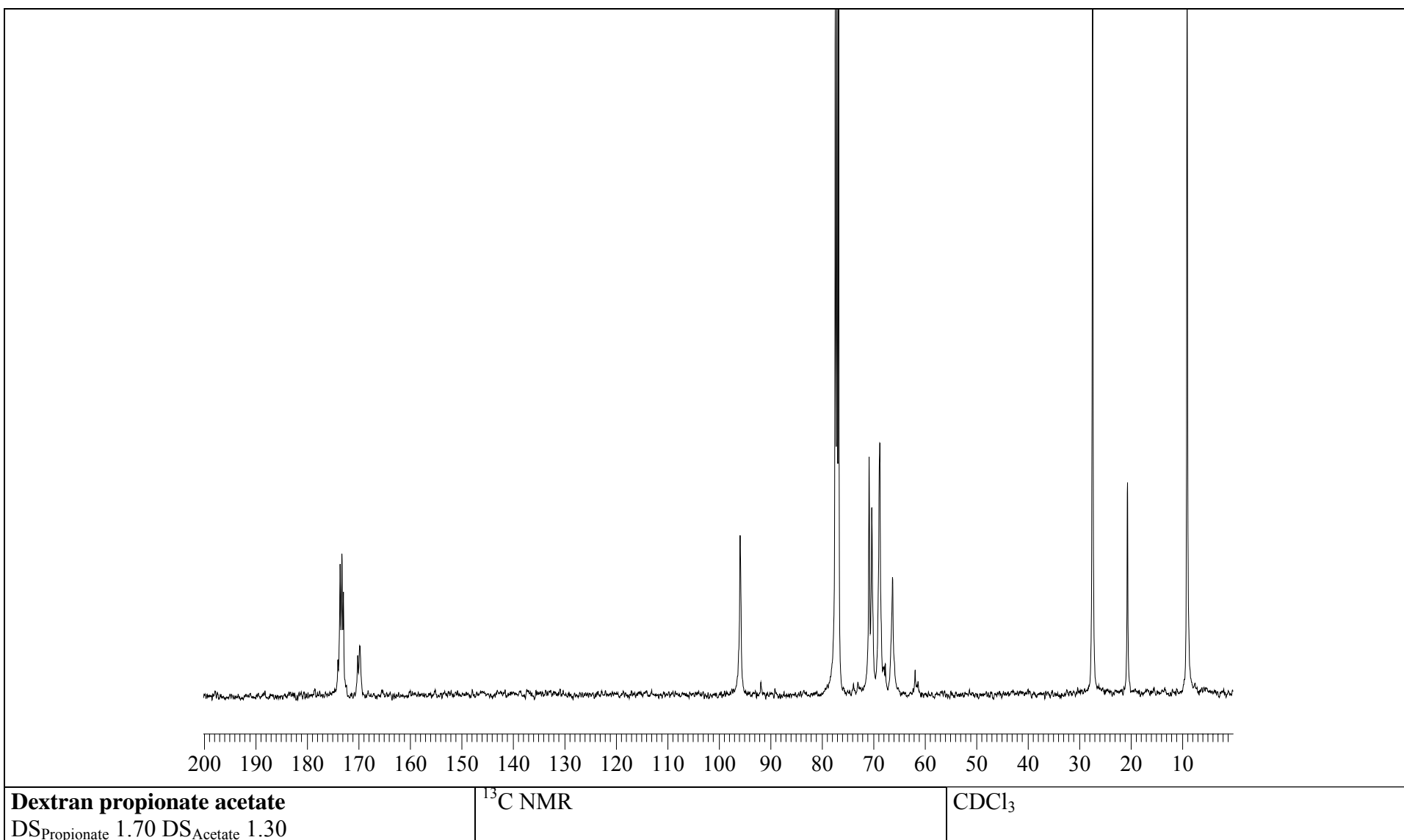
Dextran propionate

DS_{Propionate} 2.16

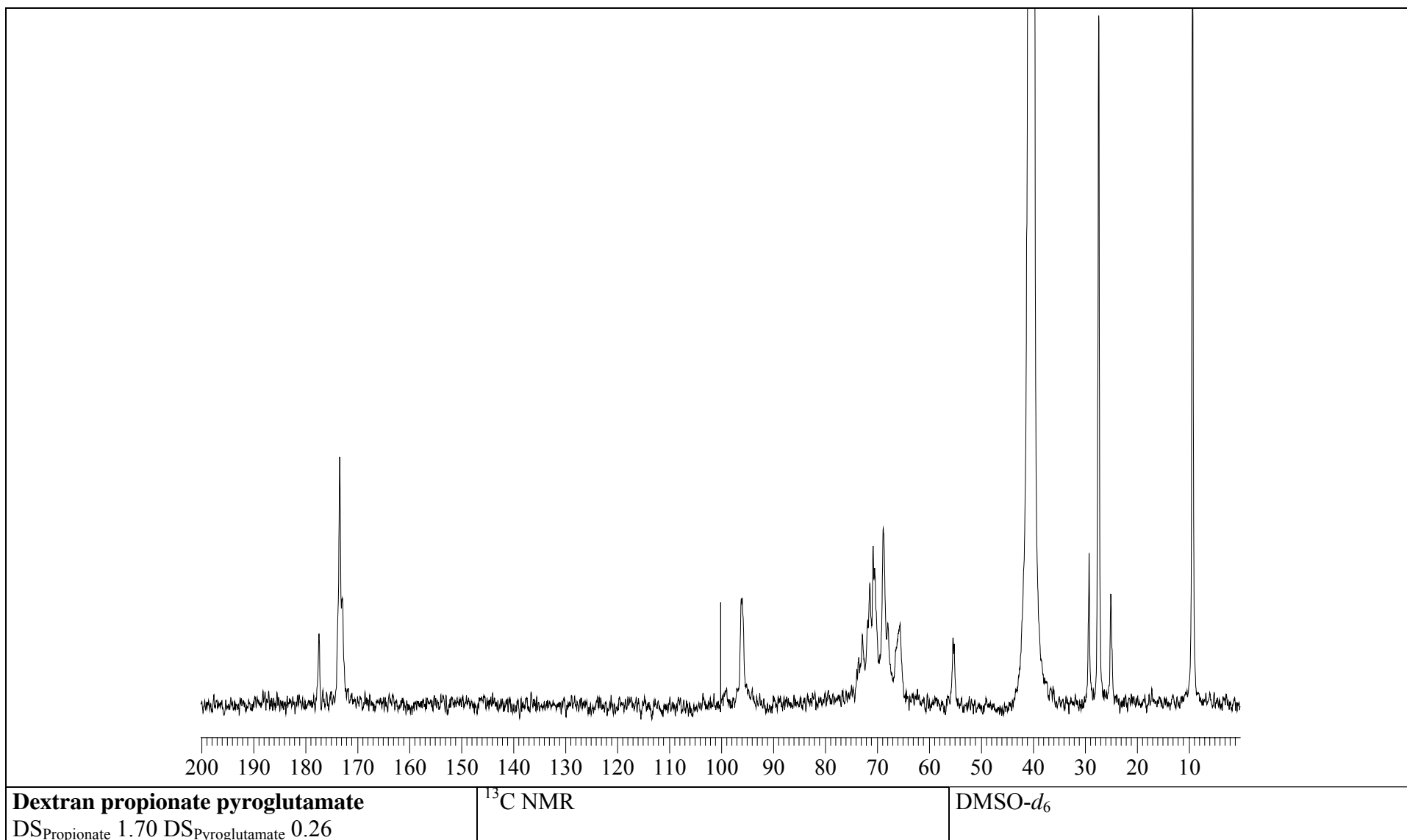
Back ↑

^{13}C NMR

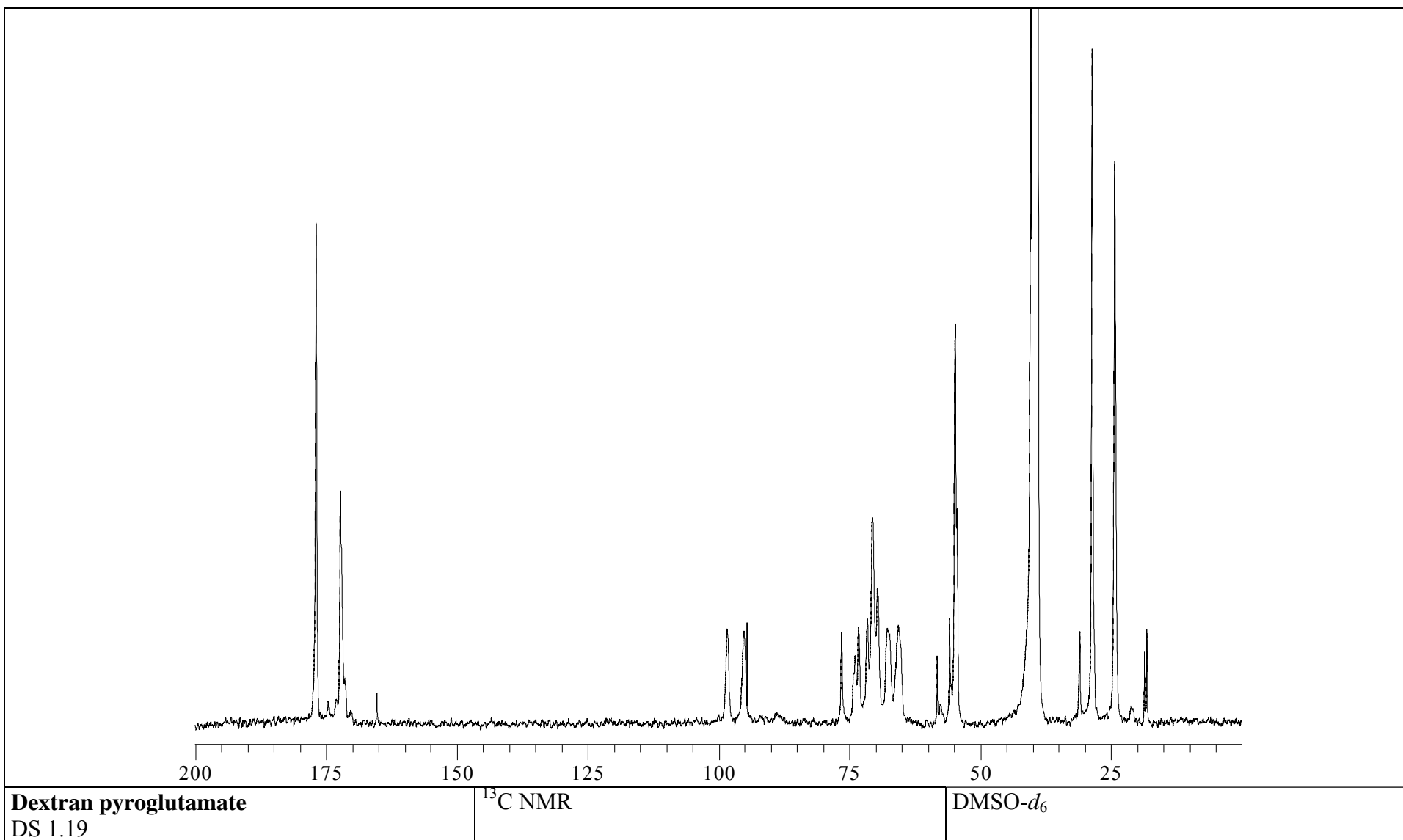
DMSO- d_6



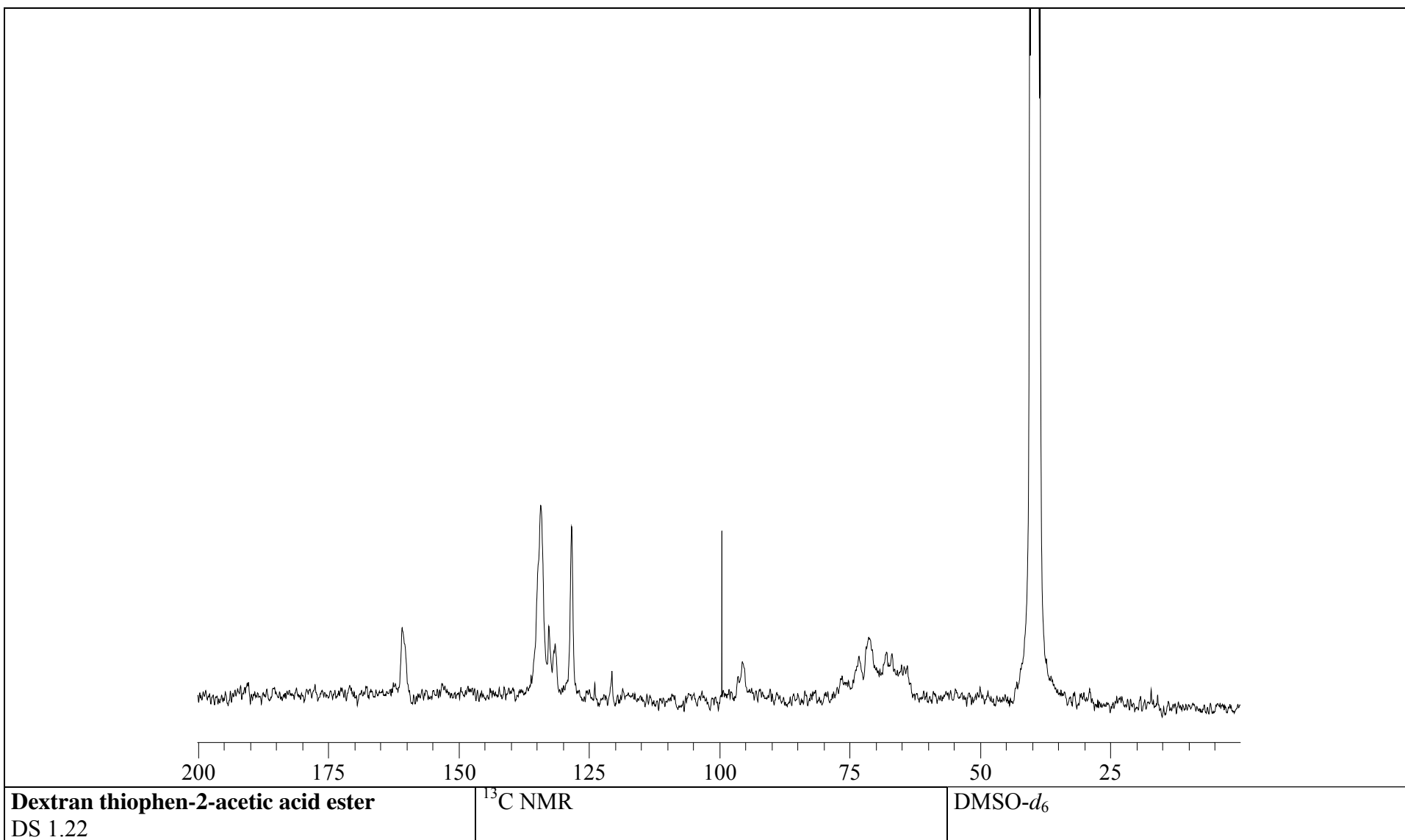
Back ↑



Back ↑



Back ↑



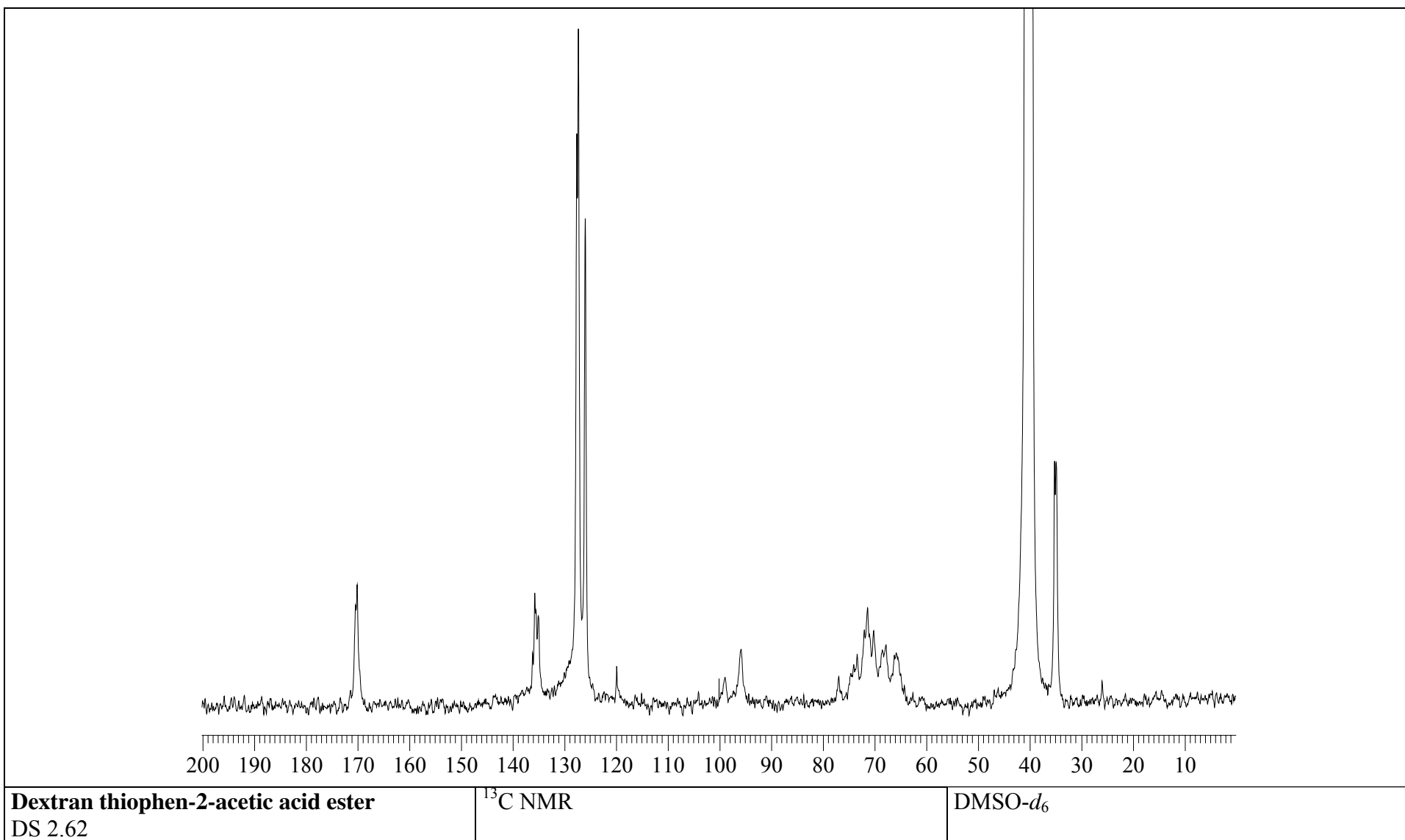
Dextran thiophen-2-acetic acid ester

DS 1.22

^{13}C NMR

$\text{DMSO}-d_6$

Back ↑



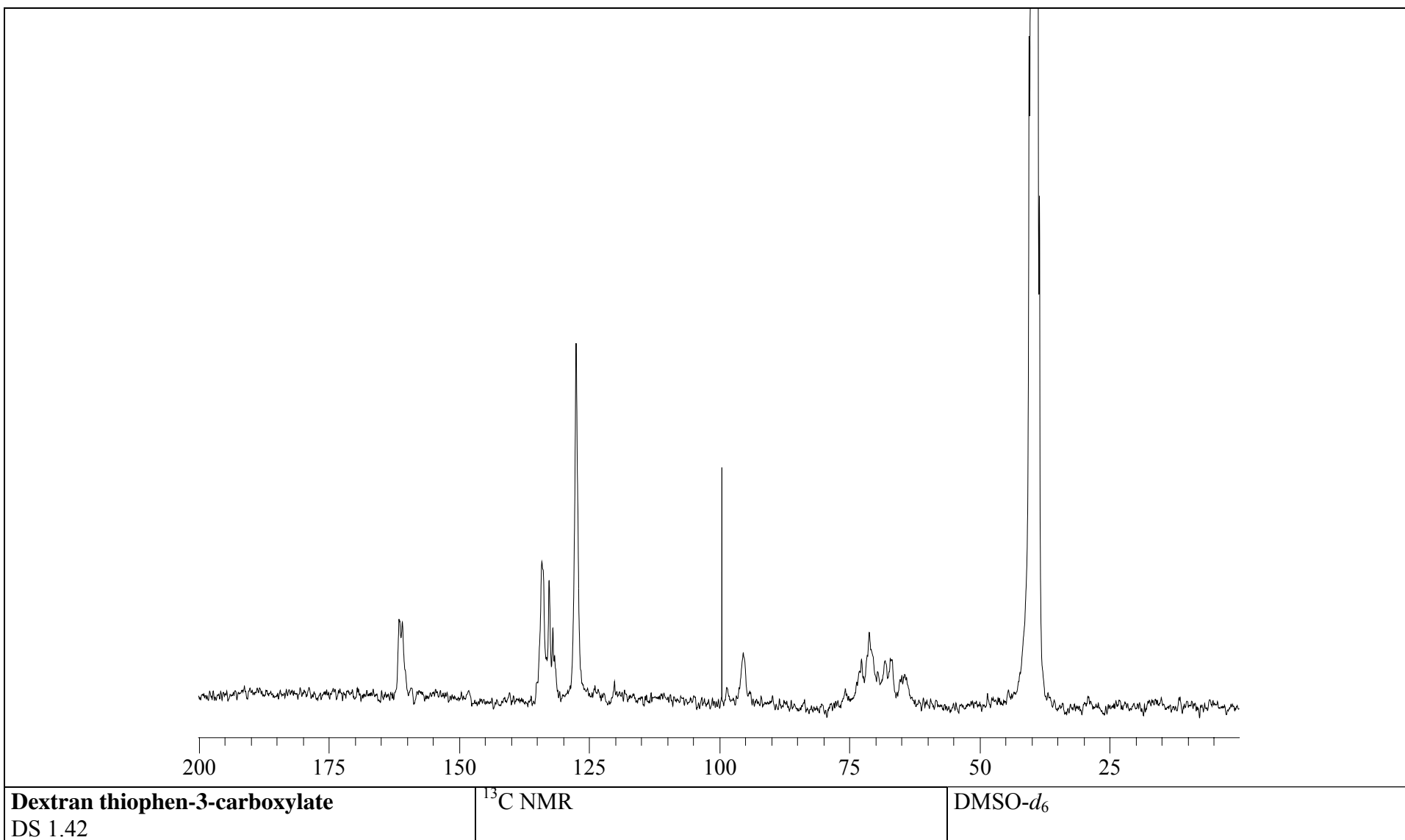
Dextran thiophen-2-acetic acid ester

DS 2.62

^{13}C NMR

DMSO- d_6

Back ↑



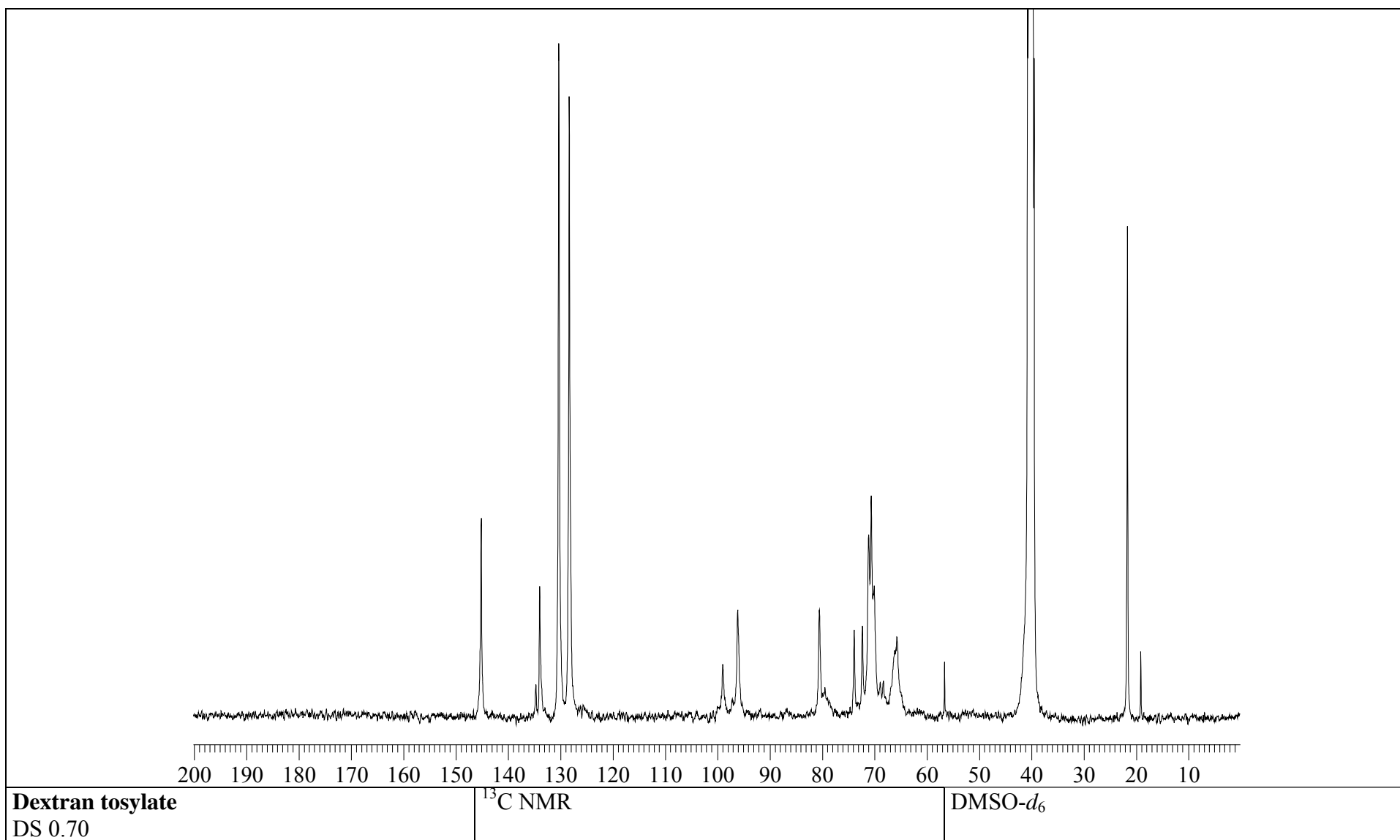
Dextran thiophen-3-carboxylate

DS 1.42

^{13}C NMR

DMSO-*d*₆

Back ↑

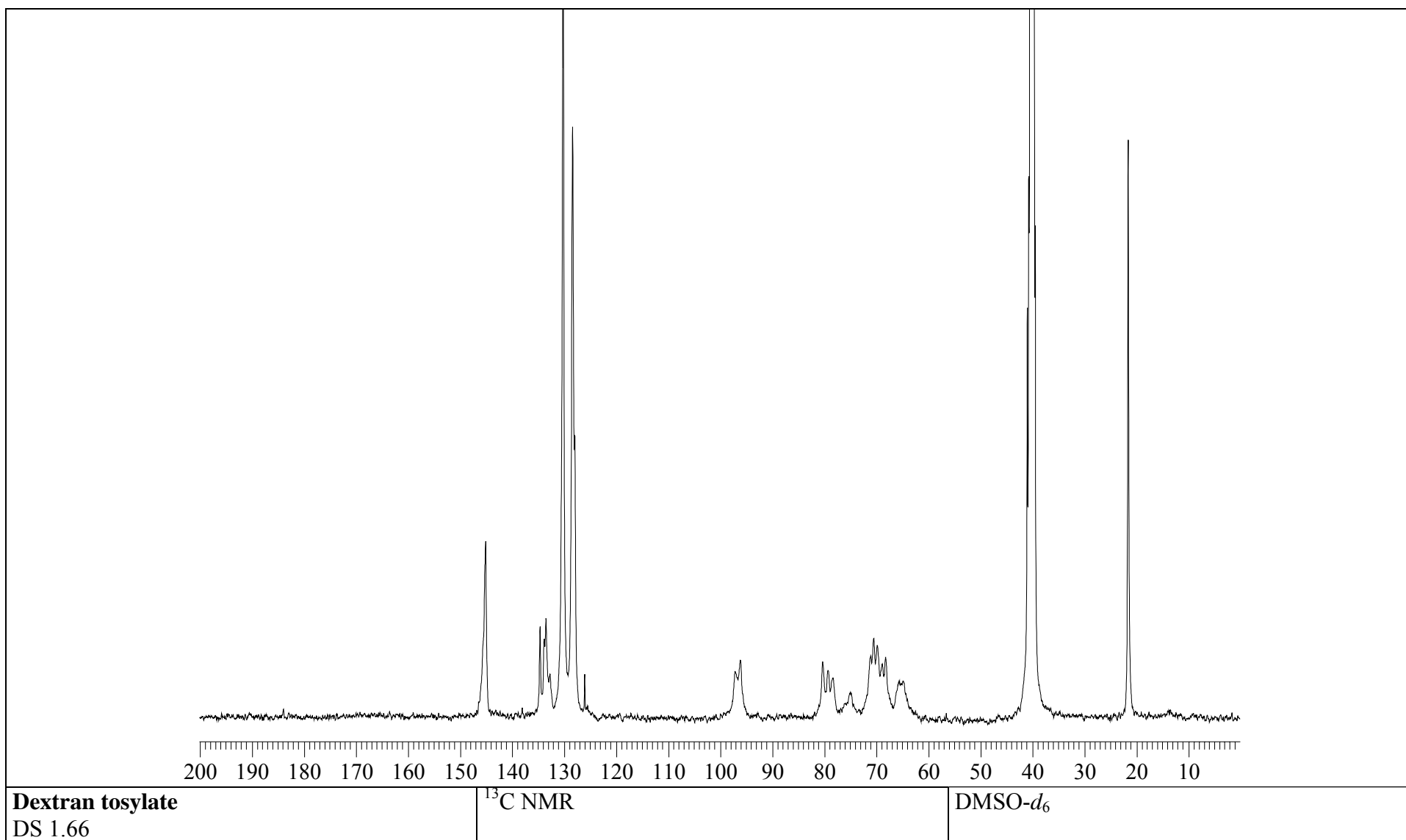


Dextran tosylate
DS 0.70

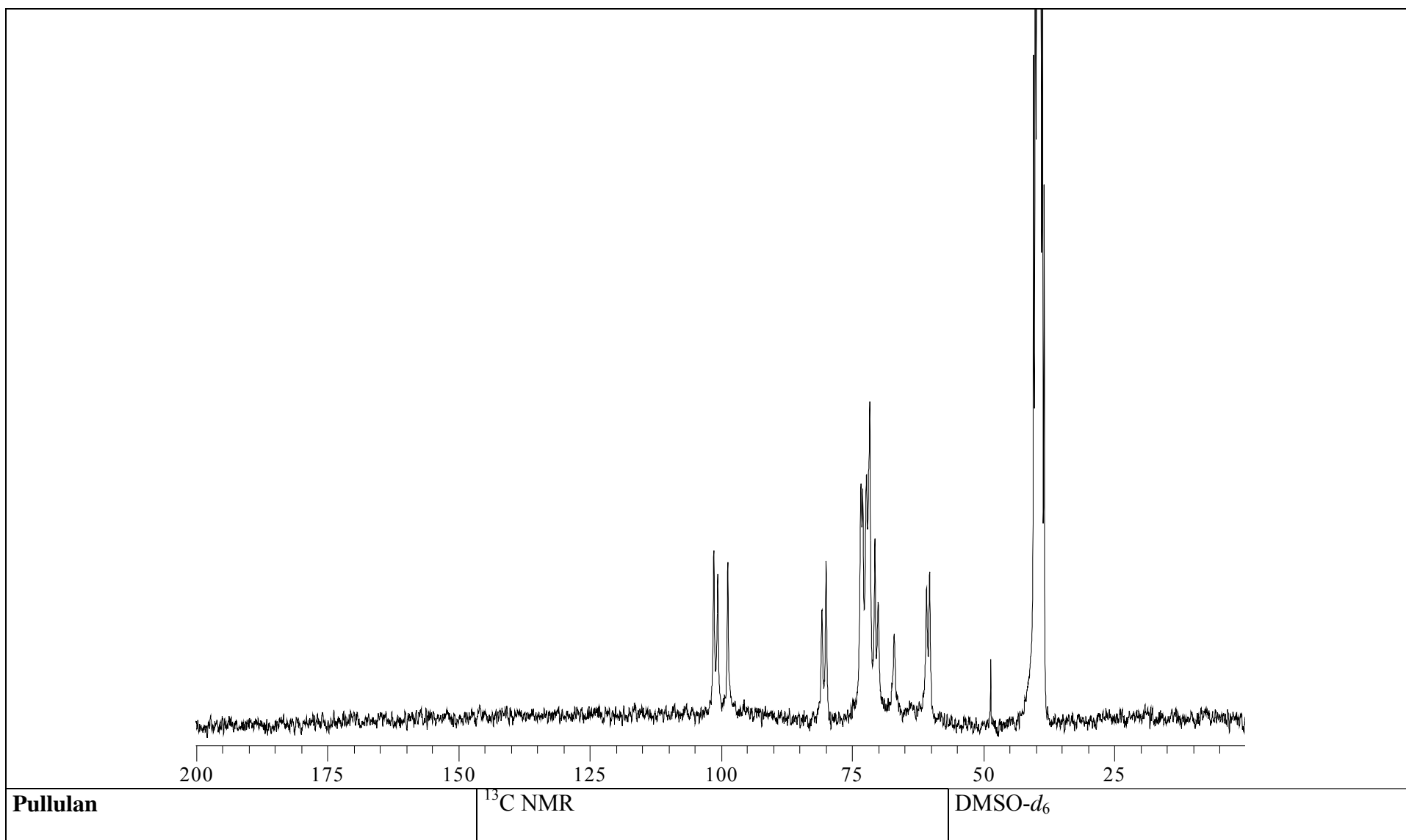
¹³C NMR

DMSO-*d*₆

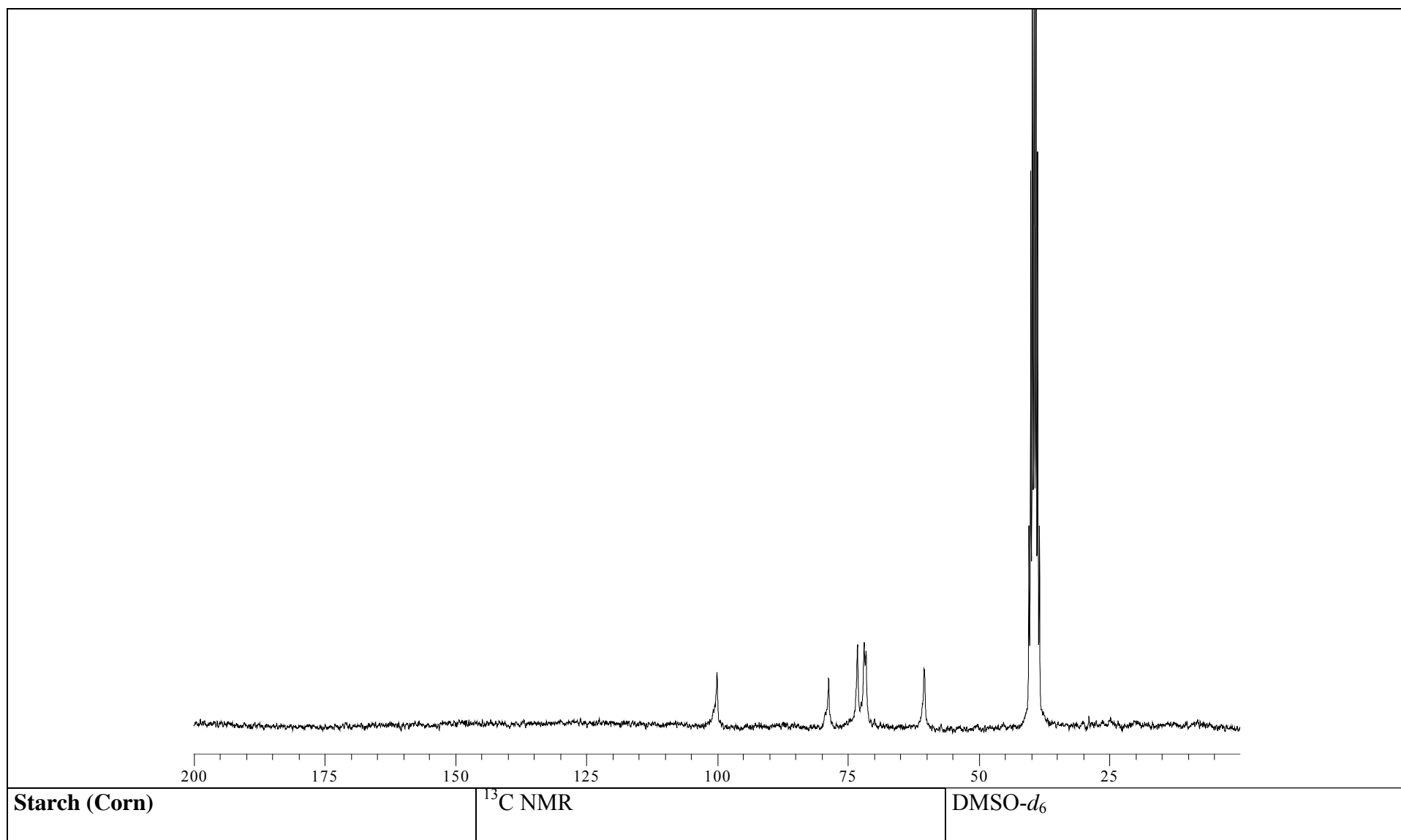
Back ↑



Back ↑



Back ↑

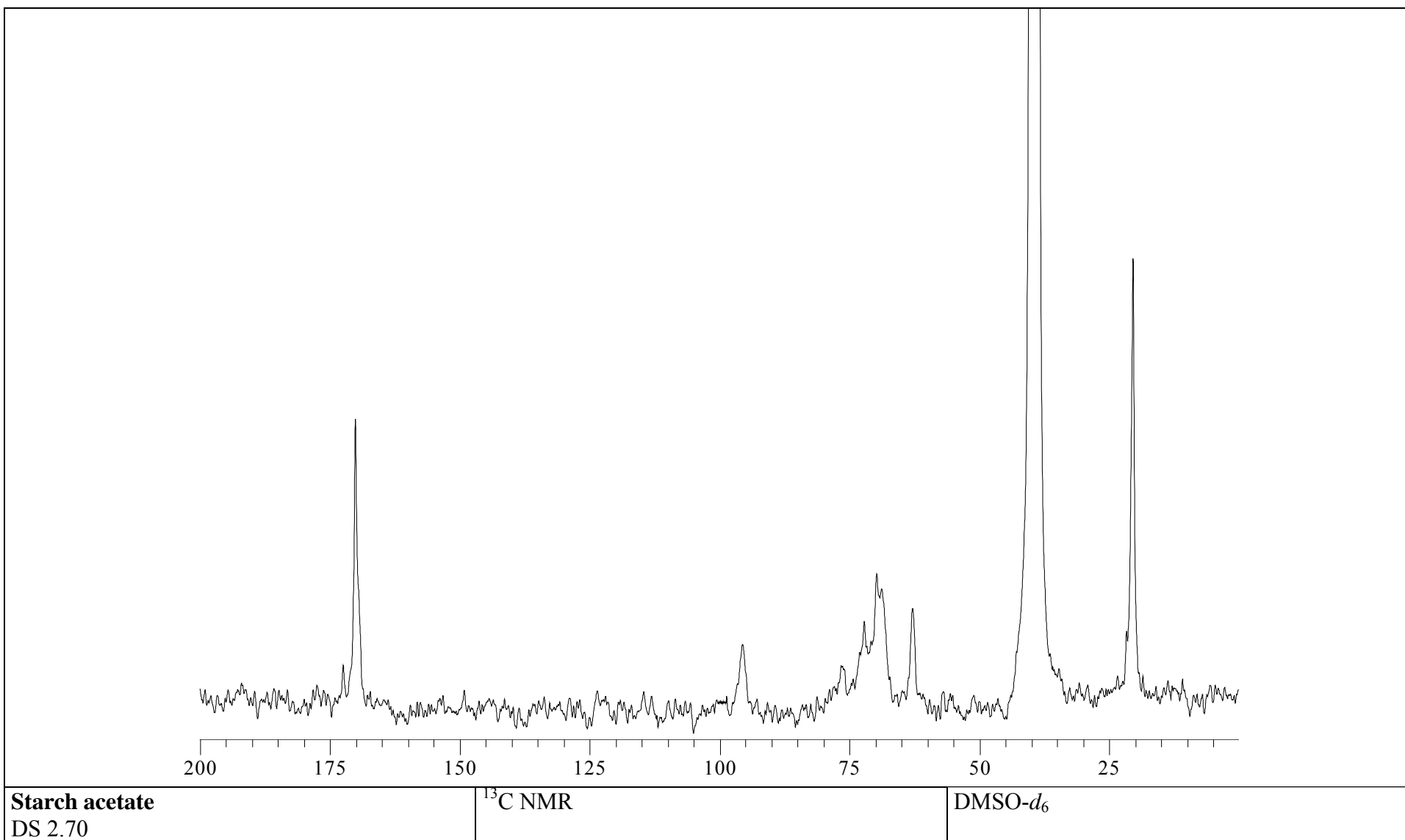


Starch (Corn)

¹³C NMR

DMSO-*d*₆

Back ↑



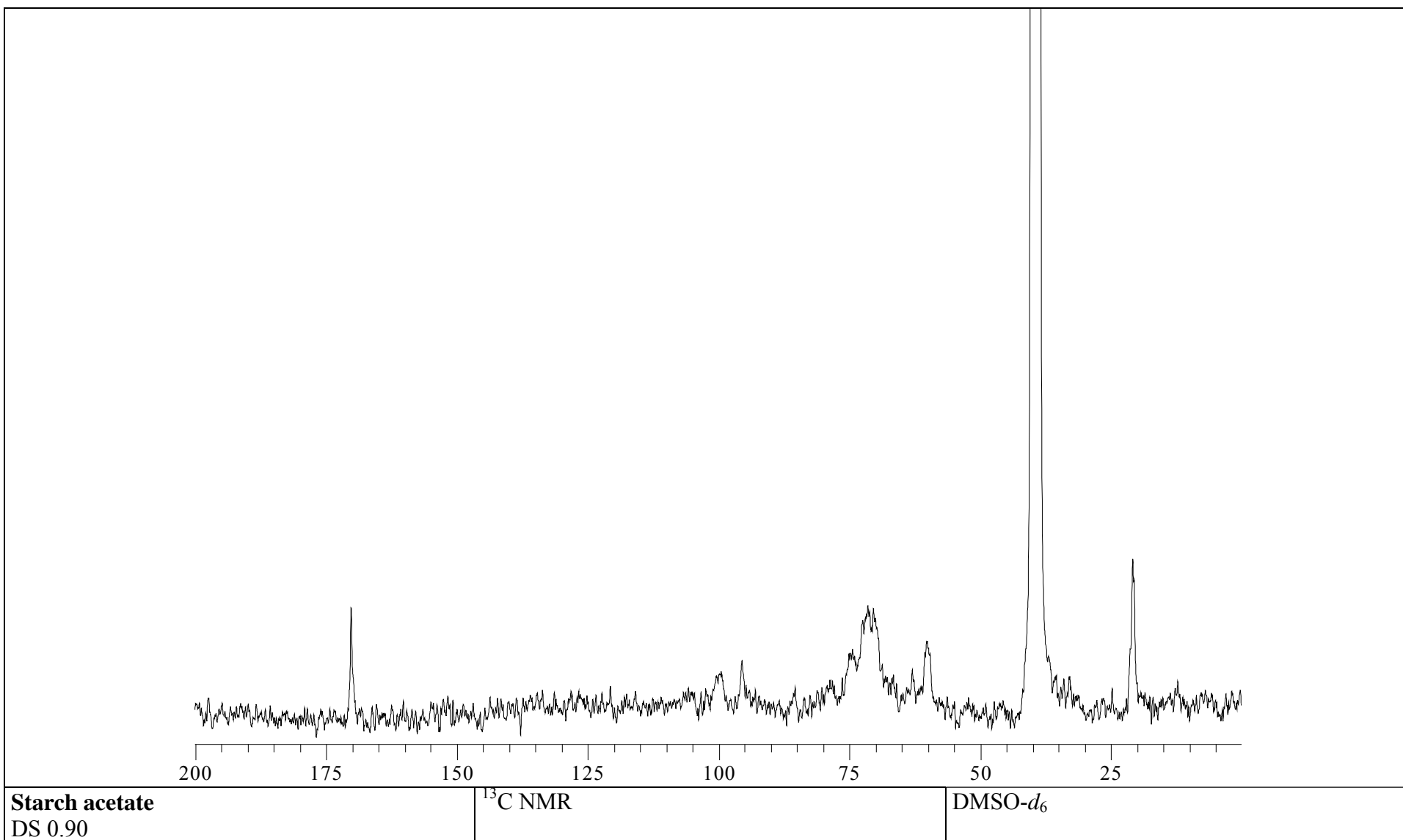
Starch acetate

DS 2.70

^{13}C NMR

$\text{DMSO}-d_6$

Back ↑

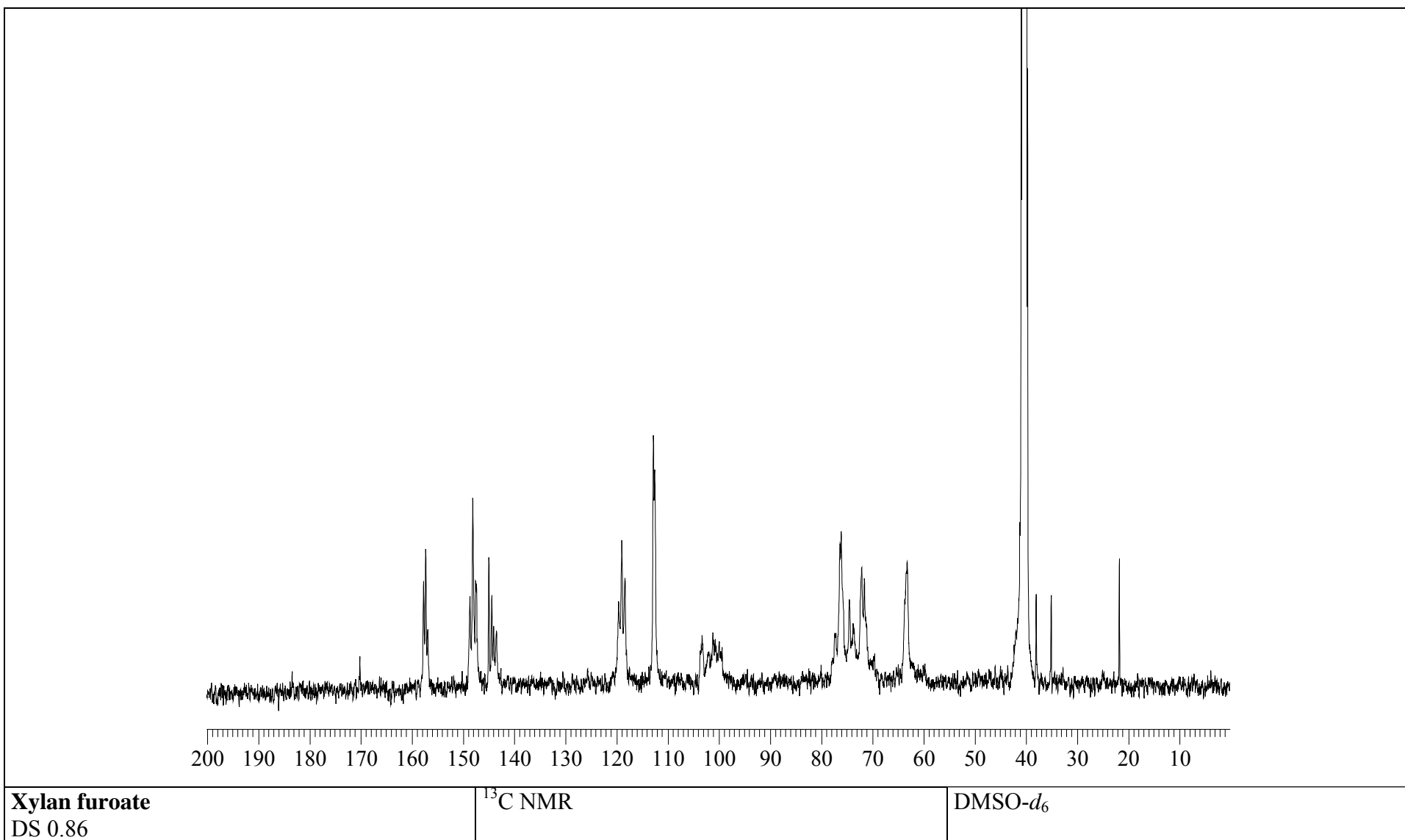


Starch acetate
DS 0.90

^{13}C NMR

$\text{DMSO}-d_6$

Back ↑



Back ↑