

TB

T/ NAI 1/2

Determination of flavonoids in barbary wolfberry leaves and barbary wolfberry tea

1/2

-1/2

-1/2

1/2

-1/2

-1/2

GB/T 1.1-2020

1

2

GB/T 6682

3

4

(510 nm)

-

5

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5.1

5.1.1 CH₃CH₂OH CAS 64-17-5

5.1.2 NaNO₂ CAS 7632-00-0

5.1.3 Al NO₃ 3 CAS 7784-27-25.1.4 NaOH CAS 1310-73-2

5.2

5.2.1 60% 60 mL 30 mL

5.2.2 70% 70 mL 30 mL

5.2.3 5% 5.00 g 100 mL

5.2.4 10% 10.00 g 100 mL

5.2.5 4% 8.00 g 200 mL

5.3

C₂₇H₃₀O₁₆ CAS 153-18-4 98.0%

5.4

6.70mg 0.0001g 25 mL 5.2.2
0.268 mg/mL

6

6.1

6.2 0.00001 g

6.3

6.4

6.5

6.6

7

3

1 g 0.0001 g 50 mL 70% 5.2.2

30 min 1 h 30 mL 70% 5.2.2

1 h 5.2.2 100 mL

8

8.1

5.4 0mL 0.1mL 0.4mL 0.8mL 1.2mL 1.6mL 2.0mL 10

mL 2.4 mL 5 5.2.3 0.4 mL 6 min

10% 5.2.4 0.4 mL 6 min 4 5.2.5 1 mL

15 min 510 nm

(ug/mL) A

2

8.2

	7	1.0mL	5		5.2.3	0.4 mL		6 min	10%
	5.2.4	0.4 mL		6 min	4		5.2.5	1 mL	
	15 min		509 nm						

9

$$= \frac{(A - A_0) \frac{V_1}{V_2} \frac{V_3}{1000}}{m \frac{V_1}{V_2} \frac{V_3}{1000}}$$

1

$\frac{1}{2} \frac{1}{2}$ mg/g

$\frac{1}{2} \frac{1}{2}$ g/mL

$\frac{0}{2} \frac{1}{2}$ g/mL

$V_1 \frac{1}{2} \frac{1}{2}$ mL

$V_3 \frac{1}{2} \frac{1}{2}$ mL

$m \frac{1}{2} \frac{1}{2}$ g

$V_2 \frac{1}{2} \frac{1}{2}$ mL

10

10%

11

C18

357 nm

12

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12.1

12.1.1 CH₃CH₂OH CAS 64-17-5

12.1.2 CH₃OH CAS 67-56-1

12.1.3 CH₃COOH 64-19-7

12. 2

12.2.1 70% 70 mL 30 mL

12.2.2 1% 1 mL 100 mL

12. 3

C₂₇H₃₀O₁₆ CAS 153-18-4 98.0%

12. 4

0.45µm

12. 4

5.4

13

13.1

13.2 0.00001 g

13.3

13.4

13.5

13.6

14

7

15

15. 1

C18 250 mm 4.6 mm 5 µm

20

-1% 32 68

357 nm

1.0 mL/min

10 µL

15. 2

5.2.2

0 µg/mL 50 µg/mL 80

µg/mL 100 µg/mL 200 µg/mL 300 µg/mL 400 µg/mL

A

HPLC

A.1-A.3

A.1

A.2

A.3

B

B.1

B.1

	$\mu\text{g/mL}$	$\mu\text{g/mL}$
	0.101	0.030
