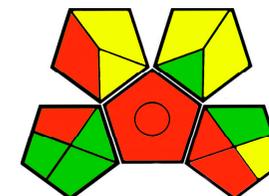


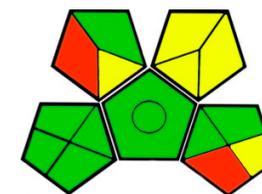
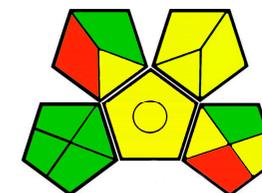
Supplementary Table S1. *Green analytical procedure index GAPI in details for Empagliflozin analysis*

<b>1</b>	<b>Category</b>	<b>Method</b>
	<b><u>Sample preparation</u></b>	
	Collection (1)	In line (Green)
	Preservation (2)	None (Green)
	Transport (3)	None (Green)
	Storage (4)	Under special condition (Red)
	Type of method: Direct or indirect (5)	Extraction (Red)
	Scale of extraction (6)	Macro-extraction (Red)
	Solvents/ reagents used (7)	Non-green solvents and reagents used (Red)
	Additional treatments (8)	Simple treatment (Yellow)
	<b><u>Reagent and Solvents</u></b>	
	Amount (9)	Less than 10 ml (Green)
	Health hazard (10)	NFPA=2, Moderate toxicity (Yellow)
	Safety hazard (11)	NFPA=3; high flammability (Yellow)
	<b><u>Instrumentation</u></b>	
	Energy (12)	>1.5 Kwh per sample (Red)
	Occupational hazard (13)	Hermetic sealing of analytical procedure (Green)
	Waste (14)	1-10 ml (yellow)
	Waste treatment (15)	No treatment (Red)

**Figure**



<p><b><u>2</u></b>    <b><u>Sample preparation</u></b>  Collection (1)  Preservation (2)  Transport (3)  Storage (4)  Type of method: Direct or indirect (5)  Scale of extraction (6)  Solvents/ reagents used (7)  Additional treatments (8)  <b><u>Reagent and Solvents</u></b>  Amount (9)  Health hazard (10)  Safety hazard (11)  <b><u>Instrumentation</u></b>  Energy (12)  Occupational hazard (13)  Waste (14)  Waste treatment (15)</p>	<p>In line (Green)  None (Green)  None (Green)  None (Green)  Simple procedure (Yellow)  Micro-extraction (Yellow)  Non-green solvents and reagents used (Red)  None (Green)    10-100 ml (Yellow)  NFPA=2, Moderate toxicity (Yellow)  NFPA=3; high flammability (Yellow)    &lt;=1.5 Kwh per sample (Yellow)  Hermetic sealing of analytical procedure (Green)  1-10 ml (yellow)  No treatment (Red)</p>
<p><b><u>3</u></b>    <b><u>Sample preparation</u></b>  Collection (1)  Preservation (2)  Transport (3)  Storage (4)  Type of method: Direct or indirect (5)  Scale of extraction (6)  Solvents/ reagents used (7)</p>	<p>In line (Green)  None (Green)  None (Green)  None (Green)  No sample preparation (Green)  Micro-extraction (Yellow)  Non-green solvents and reagents used (Red)</p>



Additional treatments (8)

**Reagent and Solvents**

Amount (9)

Health hazard (10)

Safety hazard (11)

**Instrumentation**

Energy (12)

Occupational hazard (13)

Waste (14)

Waste treatment (15)

None (Green)

10-100 ml (Yellow)

NFPA=2, Moderate toxicity  
(Yellow)

NFPA=3; high flammability  
(Yellow)

$\leq 0.1$  Kwh per sample (Green)

Hermetic sealing of analytical  
procedure (Green)

$< 1$  ml (Green)

No treatment (Red)

In line (Green)

None (Green)

None (Green)

None (Green)

Simple procedures (Yellow)

Micro-extraction (Yellow)

Non-green solvents and  
reagents used (Red)

None (Green)

**4 Sample preparation**

Collection (1)

Preservation (2)

Transport (3)

Storage (4)

Type of method: Direct or indirect (5)

Scale of extraction (6)

Solvents/ reagents used (7)

Additional treatments (8)

**Reagent and Solvents**

Amount (9)

Health hazard (10)

Safety hazard (11)

**Instrumentation**

Energy (12)

Occupational hazard (13)

Waste (14)

Waste treatment (15)

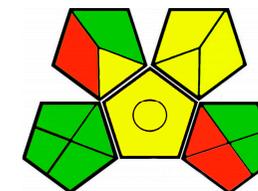
10-100 ml (Yellow)

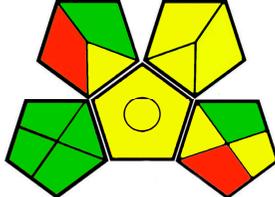
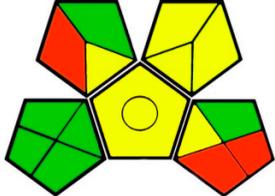
NFPA=2, Moderate toxicity  
(Yellow)

NFPA=3; high flammability  
(Yellow)

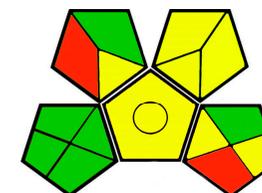
$> 1.5$  Kwh per sample (Red)

Hermetic sealing of analytical

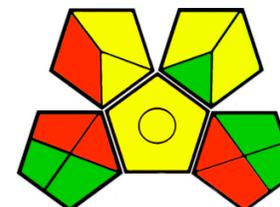


<p><b>5</b></p> <p>Collection (1)          Preservation (2)          Transport (3)          Storage (4)          Type of method: Direct or indirect (5)          Scale of extraction (6)          Solvents/ reagents used (7)          Additional treatments (8)</p> <p><b><u>Reagent and Solvents</u></b>          Amount (9)          Health hazard (10)          Safety hazard (11)</p> <p><b><u>Instrumentation</u></b>          Energy (12)          Occupational hazard (13)          Waste (14)          Waste treatment (15)</p>	<p>procedure (Green)          &lt;1 ml (Green)          No treatment (Red)          In line (Green)          None (Green)          None (Green)          None (Green)          Simple procedures (Yellow)          Micro-extraction (Yellow)          Non-green solvents and reagents used (Red)          None (Green)</p> <p>10-100 ml (Yellow)          NFPA=2, Moderate toxicity (Yellow)          NFPA=3; high flammability (Yellow)</p> <p>&lt;=1.5 Kwh per sample (Yellow)          Hermetic sealing of analytical procedure (Green)          1-10 ml (yellow)          No treatment (Red)</p>	
<p><b>6</b></p> <p>Collection (1)          Preservation (2)          Transport (3)          Storage (4)          Type of method: Direct or indirect (5)          Scale of extraction (6)</p>	<p>In line (Green)          None (Green)          None (Green)          None (Green)          Simple procedures (Yellow)          Micro-extraction (Yellow)</p>	

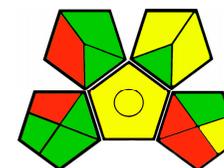
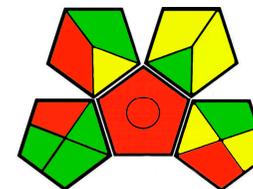
	Solvents/ reagents used (7)	Non-green solvents and reagents used (Red)
	Additional treatments (8)	None (Green)
	<b><u>Reagent and Solvents</u></b>	
	Amount (9)	10-100 ml (Yellow)
	Health hazard (10)	NFPA=2, Moderate toxicity (Yellow)
	Safety hazard (11)	NFPA=3; high flammability (Yellow)
	<b><u>Instrumentation</u></b>	
	Energy (12)	<=1.5 Kwh per sample (Yellow)
	Occupational hazard (13)	Hermetic sealing of analytical procedure (Green)
	Waste (14)	1-10 ml (yellow)
	Waste treatment (15)	No treatment (Red)
7	Collection (1)	In line (Green)
	Preservation (2)	None (Green)
	Transport (3)	None (Green)
	Storage (4)	None (Green)
	Type of method: Direct or indirect (5)	Simple procedures (Yellow)
	Scale of extraction (6)	Micro-extraction (Yellow)
	Solvents/ reagents used (7)	Non-green solvents and reagents used (Red)
	Additional treatments (8)	None (Green)
	<b><u>Reagent and Solvents</u></b>	
	Amount (9)	10-100 ml (Yellow)
	Health hazard (10)	NFPA=2, Moderate toxicity (Yellow)
	Safety hazard (11)	NFPA=3; high flammability (Yellow)
	<b><u>Instrumentation</u></b>	
	Energy (12)	
	Occupational hazard (13)	



	Waste (14)	
	Waste treatment (15)	<=1.5 Kwh per sample (Yellow)
		Hermetic sealing of analytical procedure (Green)
		1-10 ml (yellow)
		No treatment (Red)
8	Collection (1)	Off-line (Red)
	Preservation (2)	None (Green)
	Transport (3)	None (Green)
	Storage (4)	Under special condition (Red)
	Type of method: Direct or indirect (5)	Simple procedures (Yellow)
	Scale of extraction (6)	Micro-extraction (Red)
	Solvents/ reagents used (7)	Non-green solvents and reagents used (Red)
	Additional treatments (8)	Simple treatment (Yellow)
	<b><u>Reagent and Solvents</u></b>	
	Amount (9)	Less than 10 ml (Green)
	Health hazard (10)	NFPA=2, Moderate toxicity (Yellow)
	Safety hazard (11)	NFPA=3; high flammability (Yellow)
	<b><u>Instrumentation</u></b>	
	Energy (12)	
	Occupational hazard (13)	
	Waste (14)	>1.5 Kwh per sample (Red)
	Waste treatment (15)	Hermetic sealing of analytical procedure (Green)
		<1 ml (Green)
		No treatment (Red)



- |    |   |   |
|----|---|---|
| 9  | <ul style="list-style-type: none"> <li>Collection (1)</li> <li>Preservation (2)</li> <li>Transport (3)</li> <li>Storage (4)</li> <li>Type of method: Direct or indirect (5)</li> <li>Scale of extraction (6)</li> <li>Solvents/ reagents used (7)</li> <li>Additional treatments (8)</li> <li><b><u>Reagent and Solvents</u></b></li> <li>Amount (9)</li> <li>Health hazard (10)</li> <li>Safety hazard (11)</li> <li><b><u>Instrumentation</u></b></li> <li>Energy (12)</li> <li>Occupational hazard (13)</li> <li>Waste (14)</li> <li>Waste treatment (15)</li> </ul> | <ul style="list-style-type: none"> <li>In line (Green)</li> <li>None (Green)</li> <li>None (Green)</li> <li>Under special condition (Red)</li> <li>Extraction (Red)</li> <li>Micro-extraction (Yellow)</li> <li>Non-green solvents and reagents used (Red)</li> <li>None (Green)</li> <br/> <li>Less than 10 ml (Green)</li> <li>NFPA=2, Moderate toxicity (Yellow)</li> <li>NFPA=3; high flammability (Yellow)</li> <br/> <li>&lt;=1.5 Kwh per sample (Yellow)</li> <li>Hermetic sealing of analytical procedure (Green)</li> <li>1-10 ml (yellow)</li> <li>No treatment (Red)</li> <li>In line (Green)</li> <li>None (Green)</li> <li>None (Green)</li> <li>Under special condition (Red)</li> <li>Simple procedures (Yellow)</li> <li>Nano-extraction (Green)</li> <li>Non-green solvents and reagents used (Red)</li> <li>None (Green)</li> </ul> |
| 10 | <ul style="list-style-type: none"> <li>Collection (1)</li> <li>Preservation (2)</li> <li>Transport (3)</li> <li>Storage (4)</li> <li>Type of method: Direct or indirect (5)</li> <li>Scale of extraction (6)</li> <li>Solvents/ reagents used (7)</li> <li>Additional treatments (8)</li> <li><b><u>Reagent and Solvents</u></b></li> </ul>   | <ul style="list-style-type: none"> <li>In line (Green)</li> <li>None (Green)</li> <li>None (Green)</li> <li>Under special condition (Red)</li> <li>Simple procedures (Yellow)</li> <li>Nano-extraction (Green)</li> <li>Non-green solvents and reagents used (Red)</li> <li>None (Green)</li> </ul>   |



Amount (9)  
Health hazard (10)  
Safety hazard (11)  
**Instrumentation**  
Energy (12)  
Occupational hazard (13)  
Waste (14)  
Waste treatment (15)

Less than 10 ml (Green)  
NFPA=2, Moderate toxicity  
(Yellow)  
NFPA=3; high flammability  
(Yellow)

>1.5 Kwh per sample (Red)  
Hermetic sealing of analytical  
procedure (Green)  
1-10 ml (yellow)  
No treatment (Red)

11 Collection (1)  
Preservation (2)  
Transport (3)  
Storage (4)  
Type of method: Direct or indirect (5)  
Scale of extraction (6)  
Solvents/ reagents used (7)  
Additional treatments (8)

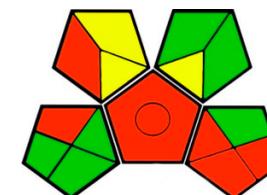
In line (Green)  
None (Green)  
None (Green)  
Under special condition (Red)  
Extraction (Red)  
Micro-extraction (Yellow)  
Non-green solvents and  
reagents used (Red)  
Simple treatment (Yellow)

**Reagent and Solvents**

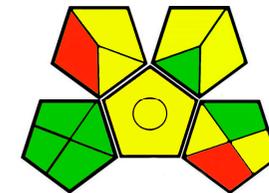
Amount (9)  
Health hazard (10)  
Safety hazard (11)  
**Instrumentation**  
Energy (12)  
Occupational hazard (13)  
Waste (14)  
Waste treatment (15)

10-100 ml (Yellow)  
NFPA=2, Moderate toxicity  
(Yellow)  
NFPA=3; high flammability  
(Yellow)

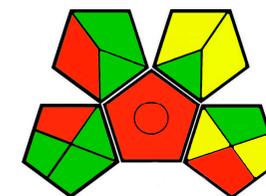
>1.5 Kwh per sample (Red)  
Hermetic sealing of analytical



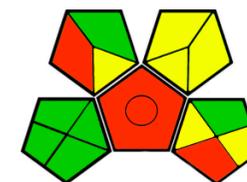
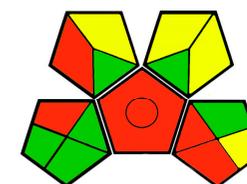
	procedure (Green)
	>10 ml (Red)
	No treatment (Red)
12	Collection (1)
	Preservation (2)
	Transport (3)
	Storage (4)
	Type of method: Direct or indirect (5)
	Scale of extraction (6)
	Solvents/ reagents used (7)
	Additional treatments (8)
	<b><u>Reagent and Solvents</u></b>
	Amount (9)
	Health hazard (10)
	Safety hazard (11)
	<b><u>Instrumentation</u></b>
	Energy (12)
	Occupational hazard (13)
	Waste (14)
	Waste treatment (15)
	In line (Green)
	None (Green)
	None (Green)
	None (Green)
	Simple procedures (Yellow)
	Micro-extraction (Yellow)
	Non-green solvents and reagents used (Red)
	Simple treatment (Yellow)
	Less than 10 ml (Green)
	NFPA=2, Moderate toxicity (Yellow)
	NFPA=3; high flammability (Yellow)
	<=1.5 Kwh per sample (Yellow)
	Hermetic sealing of analytical procedure (Green)
	1-10 ml (Yellow)
	No treatment (Red)



- |    |  |  |
|----|--|--|
| 13 | Collection (1)                         | In line (Green)                                  |
|    | Preservation (2)                       | None (Green)                                     |
|    | Transport (3)                          | None (Green)                                     |
|    | Storage (4)                            | Under special condition (Red)                    |
|    | Type of method: Direct or indirect (5) | Extraction (Red)                                 |
|    | Scale of extraction (6)                | Nano-extraction (Green)                          |
|    | Solvents/ reagents used (7)            | Non-green solvents and reagents used (Red)       |
|    | Additional treatments (8)              | None (Green)                                     |
|    | <b><u>Reagent and Solvents</u></b>     |  |
|    | Amount (9)                             | Less than 10 ml (Green)                          |
|    | Health hazard (10)                     | NFPA=2, Moderate toxicity (Yellow)               |
|    | Safety hazard (11)                     | NFPA=3; high flammability (Yellow)               |
|    | <b><u>Instrumentation</u></b>          |  |
|    | Energy (12)                            | <=1.5 Kwh per sample (Yellow)                    |
|    | Occupational hazard (13)               | Hermetic sealing of analytical procedure (Green) |
|    | Waste (14)                             | 1-10 ml (Yellow)                                 |
|    | Waste treatment (15)                   | No treatment (Red)                               |



- |    |   |   |
|----|---|---|
| 14 | <ul style="list-style-type: none"> <li>Collection (1)</li> <li>Preservation (2)</li> <li>Transport (3)</li> <li>Storage (4)</li> <li>Type of method: Direct or indirect (5)</li> <li>Scale of extraction (6)</li> <li>Solvents/ reagents used (7)</li> <li>Additional treatments (8)</li> <li><b><u>Reagent and Solvents</u></b></li> <li>Amount (9)</li> <li>Health hazard (10)</li> <li>Safety hazard (11)</li> <li><b><u>Instrumentation</u></b></li> <li>Energy (12)</li> <li>Occupational hazard (13)</li> <li>Waste (14)</li> <li>Waste treatment (15)</li> </ul> | <ul style="list-style-type: none"> <li>In line (Green)</li> <li>None (Green)</li> <li>None (Green)</li> <li>Under special condition (Red)</li> <li>Extraction (Red)</li> <li>Nano-extraction (Green)</li> <li>Non-green solvents and reagents used (Red)</li> <li>Simple treatment (Yellow)</li> <br/> <li>Less than 10 ml (Green)</li> <li>NFPA=2, Moderate toxicity (Yellow)</li> <li>NFPA=3; high flammability (Yellow)</li> <br/> <li>&gt;1.5 Kwh per sample (Red)</li> <li>Hermetic sealing of analytical procedure (Green)</li> <li>1-10 ml (Yellow)</li> <li>No treatment (Red)</li> </ul> |
| 15 | <ul style="list-style-type: none"> <li>Collection (1)</li> <li>Preservation (2)</li> <li>Transport (3)</li> <li>Storage (4)</li> <li>Type of method: Direct or indirect (5)</li> <li>Scale of extraction (6)</li> <li>Solvents/ reagents used (7)</li> <li>Additional treatments (8)</li> <li><b><u>Reagent and Solvents</u></b></li> <li>Amount (9)</li> </ul>   | <ul style="list-style-type: none"> <li>In line (Green)</li> <li>None (Green)</li> <li>None (Green)</li> <li>None (Green)</li> <li>Extraction (Red)</li> <li>Micro-extraction (Yellow)</li> <li>Non-green solvents and reagents used (Red)</li> <li>None (Green)</li> </ul>  |



Health hazard (10)  
Safety hazard (11)  
**Instrumentation**  
Energy (12)  
Occupational hazard (13)  
Waste (14)  
Waste treatment (15)

10-100 ml (Yellow)  
NFPA=2, Moderate toxicity  
(Yellow)  
NFPA=3; high flammability  
(Yellow)

<=1.5 Kwh per sample  
(Yellow)  
Hermetic sealing of analytical  
procedure (Green)  
1-10 ml (Yellow)  
No treatment (Red)

16 Collection (1)  
Preservation (2)  
Transport (3)  
Storage (4)  
Type of method: Direct or indirect (5)  
Scale of extraction (6)  
Solvents/ reagents used (7)  
Additional treatments (8)

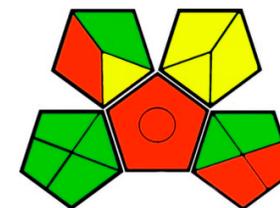
In line (Green)  
None (Green)  
None (Green)  
None (Green)  
Extraction (Red)  
Micro-extraction (Yellow)  
Non-green solvents and  
reagents used (Red)  
None (Green)

**Reagent and Solvents**

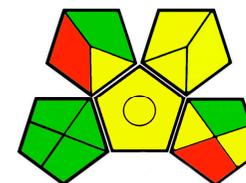
Amount (9)  
Health hazard (10)  
Safety hazard (11)  
**Instrumentation**  
Energy (12)  
Occupational hazard (13)  
Waste (14)  
Waste treatment (15)

10-100 ml (Yellow)  
NFPA=2, Moderate toxicity  
(Yellow)  
NFPA=3; high flammability  
(Yellow)

<= 0.1 Kwh per sample  
(Green)



	Hermetic sealing of analytical procedure (Green)
	>10 ml (Red)
	No treatment (Red)
17 <b><u>Sample preparation</u></b>	
Collection (1)	In line (Green)
Preservation (2)	None (Green)
Transport (3)	None (Green)
Storage (4)	Simple procedure (Yellow)
Type of method: Direct or indirect (5)	Micro-extraction (Yellow)
Scale of extraction (6)	Non-green solvents and reagents used (Red)
Solvents/ reagents used (7)	None (Green)
Additional treatments (8)	
<b><u>Reagent and Solvents</u></b>	
Amount (9)	10-100 ml (Yellow)
Health hazard (10)	NFPA=2, Moderate toxicity (Yellow)
Safety hazard (11)	NFPA=3; high flammability (Yellow)
<b><u>Instrumentation</u></b>	
Energy (12)	
Occupational hazard (13)	
Waste (14)	<=1.5 Kwh per sample (Yellow)
Waste treatment (15)	Hermetic sealing of analytical procedure (Green)
	1-10 ml (yellow)
	No treatment (Red)



18 **Sample preparation**

Collection (1)  
Preservation (2)  
Transport (3)  
Storage (4)  
Type of method: Direct or indirect (5)  
Scale of extraction (6)  
Solvents/ reagents used (7)  
Additional treatments (8)

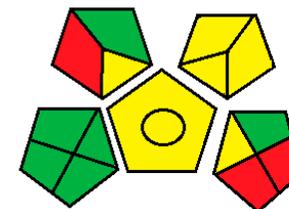
**Reagent and Solvents**

Amount (9)  
Health hazard (10)  
Safety hazard (11)

**Instrumentation**

Energy (12)  
Occupational hazard (13)  
Waste (14)  
Waste treatment (15)

In line (Green)  
None (Green)  
None (Green)  
None (Green)  
Simple procedure (Yellow)  
Micro-extraction (Yellow)  
Non-green solvents and reagents used (Red)  
None (Green)  
  
10-100 ml (Yellow)  
NFPA=2, Moderate toxicity (Yellow)  
NFPA=3; high flammability (Yellow)  
  
<=1.5 Kwh per sample (Yellow)  
Hermetic sealing of analytical procedure (Green)  
>10 ml (red)  
No treatment (Red)



19 **Sample preparation**

- Collection (1)
- Preservation (2)
- Transport (3)
- Storage (4)
- Type of method: Direct or indirect (5)
- Scale of extraction (6)
- Solvents/ reagents used (7)
- Additional treatments (8)

**Reagent and Solvents**

- Amount (9)
- Health hazard (10)
- Safety hazard (11)

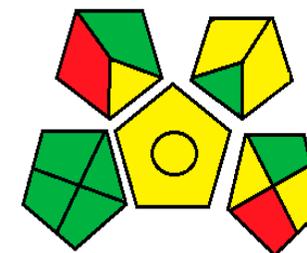
**Instrumentation**

- Energy (12)
- Occupational hazard (13)
- Waste (14)
- Waste treatment (15)

- In line (Green)
- None (Green)
- None (Green)
- None (Green)
- Simple procedure (Yellow)
- Micro-extraction (Yellow)
- Non-green solvents and reagents used (Red)
- None (Green)

- <10 ml (green)
- NFPA=2, Moderate toxicity (Yellow)
- NFPA=3; high flammability (Yellow)

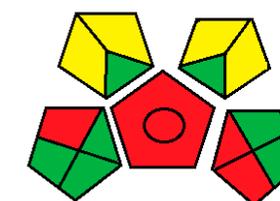
- <=1.5 Kwh per sample (Yellow)
- Hermetic sealing of analytical procedure (Green)
- 1-10 ml (yellow)
- No treatment (Red)



20 **Sample preparation**

- Collection (1)
- Preservation (2)
- Transport (3)
- Storage (4)
- Type of method: Direct or indirect (5)
- Scale of extraction (6)
- Solvents/ reagents used (7)

- In line (Green)
- None (Green)
- None (Green)
- Under special conditions (Red)
- Extraction required (red)
- Nano-extraction (green)
- green solvents used (Yellow)



Additional treatments (8)

**Reagent and Solvents**

Amount (9)

Health hazard (10)

Safety hazard (11)

**Instrumentation**

Energy (12)

Occupational hazard (13)

Waste (14)

Waste treatment (15)

Simple treatment(Yellow)

<10 ml (green)

NFPA=2, Moderate toxicity  
(Yellow)

NFPA=3; high flammability  
(Yellow)

>1.5 Kwh per sample (red)

Hermetic sealing of analytical  
procedure (Green)

<1ml (green)

No treatment (Red)

21 **Sample preparation**

Collection (1)

Preservation (2)

Transport (3)

Storage (4)

Type of method: Direct or indirect (5)

Scale of extraction (6)

Solvents/ reagents used (7)

Additional treatments (8)

In line (Green)

None (Green)

None (Green)

Under special conditions (Red)

Extraction required (red)

Nano-extraction (green)

Non-green solvents used (red)

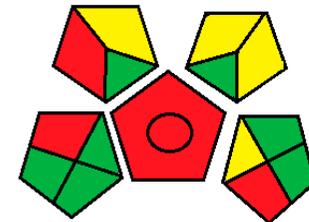
Simple treatment(Yellow)

**Reagent and Solvents**

Amount (9)

<10 ml (green)

NFPA=2, Moderate toxicity



Health hazard (10)  
Safety hazard (11)

(Yellow)  
NFPA=3; high flammability  
(Yellow)

**Instrumentation**

Energy (12)  
Occupational hazard (13)  
Waste (14)  
Waste treatment (15)

<1.5 Kwh per sample (yellow)  
Hermetic sealing of analytical  
procedure (Green)  
<1ml (green)  
No treatment (Red)

22

**Sample preparation**

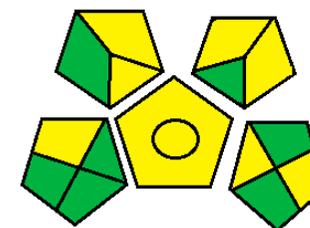
Collection (1)  
Preservation (2)  
Transport (3)  
Storage (4)  
Type of method: Direct or indirect (5)  
Scale of extraction (6)  
Solvents/ reagents used (7)  
Additional treatments (8)

In line (Green)  
None (Green)  
None (Green)  
Under normal conditions (yellow)  
Simple procedure (Yellow)  
Micro-extraction (Yellow)  
Green solvents and reagents used  
(yellow)  
Simple treatments (yellow)

**Reagent and Solvents**

Amount (9)

<10ml (green)



Health hazard (10)  
Safety hazard (11)

NFPA=2, Moderate toxicity  
(Yellow)  
NFPA=3; high flammability  
(Yellow)

**Instrumentation**

Energy (12)  
Occupational hazard (13)  
Waste (14)  
Waste treatment (15)

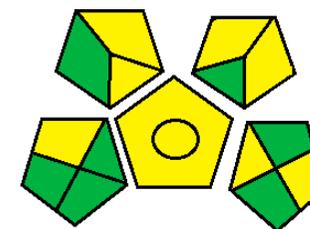
$\leq 1.5$  Kwh per sample (Yellow)  
Hermetic sealing of analytical  
procedure (Green)  
1-10 ml (yellow)  
recycled (green)

23

**Sample preparation**

Collection (1)  
Preservation (2)  
Transport (3)  
Storage (4)  
Type of method: Direct or indirect (5)  
Scale of extraction (6)  
Solvents/ reagents used (7)  
Additional treatments (8)

In line (Green)  
None (Green)  
None (Green)  
Under normal conditions (yellow)  
Simple procedure (Yellow)  
Micro-extraction (Yellow)  
Green solvents and reagents used  
(yellow)



### Reagent and Solvents

Amount (9)

Health hazard (10)

Safety hazard (11)

### Instrumentation

Energy (12)

Occupational hazard (13)

Waste (14)

Waste treatment (15)

Simple treatments (yellow)

<10ml (green)

NFPA=2, Moderate toxicity

(Yellow)

NFPA=3; high flammability

(Yellow)

<=1.5 Kwh per sample (Yellow)

Hermetic sealing of analytical  
procedure (Green)

1-10 ml (yellow)

recycled (green)

24

### Sample preparation

Collection (1)

Preservation (2)

Transport (3)

Storage (4)

Type of method: Direct or indirect (5)

Scale of extraction (6)

In line (Green)

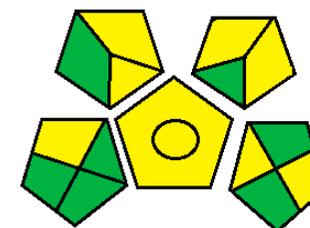
None (Green)

None (Green)

Under normal conditions (yellow)

Simple procedure (Yellow)

Micro-extraction (Yellow)



Solvents/ reagents used (7)  
Additional treatments (8)

**Reagent and Solvents**

Amount (9)  
Health hazard (10)  
Safety hazard (11)

**Instrumentation**

Energy (12)  
Occupational hazard (13)  
Waste (14)  
Waste treatment (15)

Green solvents and reagents used (yellow)  
Simple treatments (yellow)

<10ml (green)  
NFPA=2, Moderate toxicity (Yellow)  
NFPA=3; high flammability (Yellow)

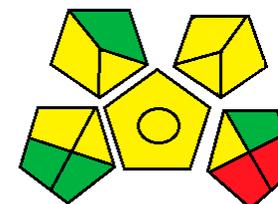
<=1.5 Kwh per sample (Yellow)  
Hermetic sealing of analytical procedure (Green)  
1-10 ml (yellow)  
recycled (green)

25

**Sample preparation**

Collection (1)  
Preservation (2)  
Transport (3)  
Storage (4)  
Type of method: Direct or indirect (5)  
Scale of extraction (6)

On line (Yellow)  
None (Green)  
None (Green)  
Under normal condition (Yellow)  
Simple procedure (Yellow)  
Micro-extraction (Yellow)



Solvents/ reagents used (7)  
Additional treatments (8)

**Reagent and Solvents**

Amount (9)  
Health hazard (10)  
Safety hazard (11)

**Instrumentation**

Energy (12)  
Occupational hazard (13)  
Waste (14)  
Waste treatment (15)

Green solvents and reagents used (yellow)  
None (green)

1-10ml (Yellow)  
NFPA=2, Moderate toxicity (Yellow)  
NFPA=3; high flammability (Yellow)

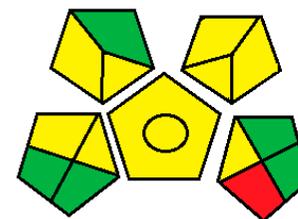
<=1.5 Kwh per sample (Yellow)  
Hermetic sealing of analytical procedure (Green)  
>10 ml (red)  
No treatment (Red)

26

**Sample preparation**

Collection (1)  
Preservation (2)  
Transport (3)  
Storage (4)  
Type of method: Direct or indirect (5)  
Scale of extraction (6)

on line (Yellow)  
None (Green)  
None (Green)  
Under normal conditions (yellow)  
Simple procedure (Yellow)  
Micro-extraction (Yellow)



Solvents/ reagents used (7)  
Additional treatments (8)

**Reagent and Solvents**

Amount (9)  
Health hazard (10)  
Safety hazard (11)

**Instrumentation**

Energy (12)  
Occupational hazard (13)  
Waste (14)  
Waste treatment (15)

Green solvents and reagents used  
(yellow)  
None (Green)

>10ml (Yellow)  
NFPA=2, Moderate toxicity  
(Yellow)  
NFPA=3; high flammability  
(Yellow)

$\leq 1.5$  Kwh per sample (Yellow)  
Hermetic sealing of analytical  
procedure (Green)  
<1ml (Green)  
No treatment (Red)