Fera Science Ltd,
Sand Hutton,
York,
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United Kingdom

1642

Test Report No.: FR001224_S19049326 **Date: 11th June 2020**

Customer:	**MG Group Limited**
Analysis:	**Suite of 7 cannabinoids and metals**
Matrix:	**Various CBD products**
Received:	**6th of December 2019**
Analysed	**11th to 20th of December 2019**

1. BACKGROUND

This report describes the analytical testing of a CBD sample product.
The term "CBD" is an acronym for cannabidiol, which is one of several cannabinoids, or chemical compounds, that are found in cannabis and hemp plants.
The sample was analysed for the concentrations of 7 cannabinoids:

- **CBC,** Cannabichromene
- **CBD,** Cannabidiol
- **CBDA,** Cannabidiolic acid
- **CBG,** Cannabigerol
- **CBN,** Cannabinol
- **THC,** Tetrahydrocannabinol
- **THCA,** Tetrahydrocannabinolic acid

The sample was also analysed for the concentration of metals: Arsenic, Cadmium, Mercury and Lead.

2. SAMPLE DESCRIPTION

The sample was received at the laboratory in satisfactory condition and stored at ambient temperature prior to analysis.
The sample was received in duplicate and contained within amber glass vials with black plastic screw caps. A unique identifying number was assigned to the sample using the Fera laboratory information management system. The relevant sample details are shown in the table below.

Sample information				
Fera reference	**Sample identification**	**Sample type**	**Batch/LOT code**	**Best before**
S19-049326	Broad spectrum CBD tincture 250mg. B/N Tinc250/01	CBD oil	B/N Tinc250/01	N/A

3. SAMPLING AND ANALYSIS

3.1 Cannabinoids

Cannabidiol (CBD) - The sample was extracted into solvent and diluted before CBD was determined using LC-UV. Accuracy of the method was assessed by analysing in-house reference material with known concentrations of CBD alongside the sample.

Cannabichromene (CBC), cannabidiolic acid (CBD-A), cannabigerol (CBG), cannabinol (CBN), Tetrahydrocannabinol (THC) and tetrahydrocannabinolic acid (THC-A) - The sample was extracted into solvent and diluted before the cannabinnoids were determined using LC-UV. Accuracy of the method was assessed by overspiking samples with a known concentration of each cannabinoid. **This method does not fall under the scope of our ISO17025 accreditation.**

3.2 Metals

Aliquots of homogenised test sample were digested in a mixture of nitric acid and hydrochloric acid using a high-pressure microwave system. Quantification was by inductively coupled plasma-mass spectrometry (ICP-MS) with collision cell. Quality checks included blanks, spikes and certified reference materials.

4. RESULTS

4.1 Cannabidiol

Sample information		
Fera reference	**Customer identification**	**CBD (%)**
S19-049326	Broad spectrum CBD tincture 250mg. B/N Tinc250/01	**2.4**

Expanded relative measurement uncertainty (95% confidence) for CBD is 12.8%.

4.2 Cannabichromene (CBC), cannabidiolic acid (CBD-A), cannabigerol (CBG), cannabinol (CBN), Tetrahydrocannabinol (THC) and tetrahydrocannabinolic acid (THC-A)

Sample identification		Other cannabinoid concentrations (%)					
Fera reference	**Sample identification**	**CBC**	**CBDA**	**CBG**	**CBN**	**THC**	**THCA**
S19-049326	Broad spectrum CBD tincture 250mg. B/N Tinc250/01	**0.01**	**< 0.01**	**< 0.01**	**< 0.01**	**< 0.01**	**< 0.01**

4.3 Metals

Sample identification		Metal concentrations (mg/kg)			
Fera reference	**Sample identification**	**Arsenic**	**Cadmium**	**Mercury**	**Lead**
S19-049326	Broad spectrum CBD tincture 250mg. B/N Tinc250/01	**< 0.005**	**< 0.005**	**< 0.01**	**< 0.005**

Issuing Officer:	Mark Harrison, Analytical chemist	**Date:**	23/12/19
Countersigning Manager:	Michael Dickinson, Senior analytical chemist	**Date:**	23/12/19

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Test Report No.: FR001224_S19049327 **Date: 11th June 2020**

Customer:	**MG Group Limited**
Analysis:	**Suite of 7 cannabinoids and metals**
Matrix:	**Various CBD products**
Received:	**6th of December 2019**
Analysed	**11th to 20th of December 2019**

1. BACKGROUND

This report describes the analytical testing of a CBD sample product.
The term "CBD" is an acronym for cannabidiol, which is one of several cannabinoids, or chemical compounds, that are found in cannabis and hemp plants.
The sample was analysed for the concentrations of 7 cannabinoids:

- **CBC,** Cannabichromene
- **CBD,** Cannabidiol
- **CBDA,** Cannabidiolic acid
- **CBG,** Cannabigerol
- **CBN,** Cannabinol
- **THC,** Tetrahydrocannabinol
- **THCA,** Tetrahydrocannabinolic acid

The sample was also analysed for the concentration of metals: Arsenic, Cadmium, Mercury and Lead.

2. SAMPLE DESCRIPTION

The sample was received at the laboratory in satisfactory condition and stored at ambient temperature prior to analysis.
The sample was received in duplicate and contained within amber glass vials with black plastic screw caps. A unique identifying number was assigned to the sample using the Fera laboratory information management system. The relevant sample details are shown in the table below.

Sample information				
Fera reference	**Sample identification**	**Sample type**	**Batch/LOT code**	**Best before**
S19-049327	Broad spectrum CBD tincture 500mg. B/N Tinc500/01	CBD oil	B/N Tinc500/01	N/A

3. SAMPLING AND ANALYSIS

3.1 Cannabinoids

Cannabidiol (CBD) - The sample was extracted into solvent and diluted before CBD was determined using LC-UV. Accuracy of the method was assessed by analysing in-house reference material with known concentrations of CBD alongside the sample.

Cannabichromene (CBC), cannabidiolic acid (CBD-A), cannabigerol (CBG), cannabinol (CBN), Tetrahydrocannabinol (THC) and tetrahydrocannabinolic acid (THC-A) - The sample was extracted into solvent and diluted before the cannabinnoids were determined using LC-UV. Accuracy of the method was assessed by overspiking samples with a known concentration of each cannabinoid. **This method does not fall under the scope of our ISO17025 accreditation.**

3.2 Metals

Aliquots of homogenised test sample were digested in a mixture of nitric acid and hydrochloric acid using a high-pressure microwave system. Quantification was by inductively coupled plasma-mass spectrometry (ICP-MS) with collision cell. Quality checks included blanks, spikes and certified reference materials.

4. RESULTS

4.1 Cannabidiol

Sample information		
Fera reference	**Customer identification**	**CBD (%)**
S19-049327	Broad spectrum CBD tincture 500mg. B/N Tinc500/01	**4.3**

Expanded relative measurement uncertainty (95% confidence) for CBD is 12.8%.

4.2 Cannabichromene (CBC), cannabidiolic acid (CBD-A), cannabigerol (CBG), cannabinol (CBN), Tetrahydrocannabinol (THC) and tetrahydrocannabinolic acid (THC-A)

Sample identification		Other cannabinoid concentrations (%)					
Fera reference	**Sample identification**	**CBC**	**CBDA**	**CBG**	**CBN**	**THC**	**THCA**
S19-049327	Broad spectrum CBD tincture 500mg. B/N Tinc500/01	**0.02**	**< 0.01**	**< 0.01**	**< 0.01**	**< 0.01**	**< 0.01**

4.3 Metals

Sample identification		Metal concentrations (mg/kg)			
Fera reference	**Sample identification**	**Arsenic**	**Cadmium**	**Mercury**	**Lead**
S19-049327	Broad spectrum CBD tincture 500mg. B/N Tinc500/01	**< 0.005**	**< 0.005**	**< 0.01**	**< 0.005**

Issuing Officer:	Mark Harrison, Analytical chemist	**Date:**	23/12/19
Countersigning Manager:	Michael Dickinson, Senior analytical chemist	**Date:**	23/12/19

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Test Report No.: FR001224_S20031619 **Date: 6th July 2020**

Customer:	**MG Group Limited**
Analysis:	**Suite of 7 cannabinoids by HPLC-UV**
Matrix:	**CBD oil**
Received:	**24th of June 2020**
Analysed	**26th of June to 1st of July 2020**

1. BACKGROUND

This report describes the analytical testing of a CBD sample product.
The term "CBD" is an acronym for cannabidiol, which is one of several cannabinoids, or chemical compounds, that are found in cannabis and hemp plants.
The sample was analysed for the concentrations of 7 cannabinoids:

- **CBC,** Cannabichromene
- **CBD,** Cannabidiol
- **CBDA,** Cannabidiolic acid
- **CBG,** Cannabigerol
- **CBN,** Cannabinol
- **THC,** Tetrahydrocannabinol
- **THCA,** Tetrahydrocannabinolic acid

2. SAMPLE DESCRIPTION

The sample was received at the laboratory in satisfactory condition and stored at ambient temperature prior to analysis.
The sample was received in a 10 mL amber glass vial with black plastic screw cap. A label with the customers identification letter was attached to the side of the vial.

A unique identifying number was assigned to the sample using the Fera laboratory information management system. The relevant sample details are shown in the table below.

Sample information					
Fera reference	**Sample identification**	**Bottle label**	**Sample type**	**Batch/LOT code**	**Best before**
S20-031619	Broad spectrum CBD tincture 1000mg. B/N 1000/01	Full spec 1000 G	Broad spectrum oil	B/N 1000/01	N/A

3. SAMPLING AND ANALYSIS

3.1 Cannabinoids

Cannabidiol (CBD) - The sample was extracted into solvent and diluted before CBD was determined using LC-UV. Accuracy of the method was assessed by analysing in-house reference material with known concentrations of CBD alongside the sample.

Cannabichromene (CBC), cannabidiolic acid (CBD-A), cannabigerol (CBG), cannabinol (CBN), Tetrahydrocannabinol (THC) and tetrahydrocannabinolic acid (THC-A) - The sample was extracted into solvent and diluted before the cannabinnoids were determined using LC-UV. Accuracy of the method was assessed by overspiking blank oil with a known concentration of each cannabinoid. **These analytes do not fall under the scope of our ISO17025 accreditation.**

4. RESULTS

4.1 Cannabidiol

Sample information		
Fera reference	**Sample identification**	**CBD (%)**
S20-031619	Broad spectrum CBD tincture 1000mg. B/N 1000/01	**9.9**

Expanded relative measurement uncertainty (95% confidence) for CBD is 12.8%.

4.2 Cannabichromene (CBC), cannabidiolic acid (CBD-A), cannabigerol (CBG), cannabinol (CBN), Tetrahydrocannabinol (THC) and tetrahydrocannabinolic acid (THC-A)

Sample identification		Other cannabinoid concentrations (%)					
Fera reference	**Sample identification**	**CBC**	**CBDA**	**CBG**	**CBN**	**THC**	**THCA**
S20-031619	Broad spectrum CBD tincture 1000mg. B/N 1000/01	**0.050**	**<0.002**	**0.006**	**0.012**	**0.006**	**0.052**

Issuing Officer:	Mark Harrison, Analytical chemist	**Date:**	02/07/20
Countersigning Manager:	Rosario Romero, Senior analytical chemist	**Date:**	06/07/20

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1642

Test Report No.: FR001224_S20031620 **Date: 6th July 2020**

Customer:	**MG Group Limited**
Analysis:	**Suite of 7 cannabinoids by HPLC-UV**
Matrix:	**CBD oil**
Received:	**24th of June 2020**
Analysed	**26th of June to 1st of July 2020**

1. BACKGROUND

This report describes the analytical testing of a CBD sample product.
The term "CBD" is an acronym for cannabidiol, which is one of several cannabinoids, or chemical compounds, that are found in cannabis and hemp plants.
The sample was analysed for the concentrations of 7 cannabinoids:

- **CBC,** Cannabichromene
- **CBD,** Cannabidiol
- **CBDA,** Cannabidiolic acid
- **CBG,** Cannabigerol
- **CBN,** Cannabinol
- **THC,** Tetrahydrocannabinol
- **THCA,** Tetrahydrocannabinolic acid

2. SAMPLE DESCRIPTION

The sample was received at the laboratory in satisfactory condition and stored at ambient temperature prior to analysis.
The sample was received in a 10 mL amber glass vial with black plastic screw cap. A label with the customers identification letter was attached to the side of the vial.

A unique identifying number was assigned to the sample using the Fera laboratory information management system. The relevant sample details are shown in the table below.

Sample information					
Fera reference	**Sample identification**	**Bottle label**	**Sample type**	**Batch/LOT code**	**Best before**
S20-031620	Broad spectrum CBD tincture 1500mg. B/N 1500/01	Full spec 1500 F	Broad spectrum oil	B/N 1500/01	N/A

3. SAMPLING AND ANALYSIS

3.1 Cannabinoids

Cannabidiol (CBD) - The sample was extracted into solvent and diluted before CBD was determined using LC-UV. Accuracy of the method was assessed by analysing in-house reference material with known concentrations of CBD alongside the sample.

Cannabichromene (CBC), cannabidiolic acid (CBD-A), cannabigerol (CBG), cannabinol (CBN), Tetrahydrocannabinol (THC) and tetrahydrocannabinolic acid (THC-A) - The sample was extracted into solvent and diluted before the cannabinnoids were determined using LC-UV. Accuracy of the method was assessed by overspiking blank oil with a known concentration of each cannabinoid. **These analytes do not fall under the scope of our ISO17025 accreditation.**

4. RESULTS

4.1 Cannabidiol

Sample information		
Fera reference	**Sample identification**	**CBD (%)**
S20-031620	Broad spectrum CBD tincture 1500mg. B/N 1500/01	**14.2**

Expanded relative measurement uncertainty (95% confidence) for CBD is 12.8%.

4.2 Cannabichromene (CBC), cannabidiolic acid (CBD-A), cannabigerol (CBG), cannabinol (CBN), Tetrahydrocannabinol (THC) and tetrahydrocannabinolic acid (THC-A)

Sample identification		Other cannabinoid concentrations (%)					
Fera reference	**Sample identification**	**CBC**	**CBDA**	**CBG**	**CBN**	**THC**	**THCA**
S20-031620	Broad spectrum CBD tincture 1500mg. B/N 1500/01	**0.070**	**<0.002**	**0.011**	**0.022**	**0.011**	**0.078**

Issuing Officer:	Mark Harrison, Analytical chemist	**Date:**	02/07/20
Countersigning Manager:	Rosario Romero, Senior analytical chemist	**Date:**	06/07/20

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Test Report No.: FR001224_S20031621 **Date: 6th July 2020**

Customer:	**MG Group Limited**
Analysis:	**Suite of 7 cannabinoids by HPLC-UV**
Matrix:	**CBD oil**
Received:	**24th of June 2020**
Analysed	**26th of June to 1st of July 2020**

1. BACKGROUND

This report describes the analytical testing of a CBD sample product.
The term "CBD" is an acronym for cannabidiol, which is one of several cannabinoids, or chemical compounds, that are found in cannabis and hemp plants.
The sample was analysed for the concentrations of 7 cannabinoids:

- **CBC,** Cannabichromene
- **CBD,** Cannabidiol
- **CBDA,** Cannabidiolic acid
- **CBG,** Cannabigerol
- **CBN,** Cannabinol
- **THC,** Tetrahydrocannabinol
- **THCA,** Tetrahydrocannabinolic acid

2. SAMPLE DESCRIPTION

The sample was received at the laboratory in satisfactory condition and stored at ambient temperature prior to analysis.
The sample was received in a 10 mL amber glass vial with black plastic screw cap. A label with the customers identification letter was attached to the side of the vial.

A unique identifying number was assigned to the sample using the Fera laboratory information management system. The relevant sample details are shown in the table below.

Sample information					
Fera reference	**Sample identification**	**Bottle label**	**Sample type**	**Batch/LOT code**	**Best before**
S20-031621	Broad spectrum CBD tincture 2000mg. B/N 2000/01	Full spec 2000 D	Broad spectrum oil	B/N 2000/01	N/A

3. SAMPLING AND ANALYSIS

3.1 Cannabinoids

Cannabidiol (CBD) - The sample was extracted into solvent and diluted before CBD was determined using LC-UV. Accuracy of the method was assessed by analysing in-house reference material with known concentrations of CBD alongside the sample.

Cannabichromene (CBC), cannabidiolic acid (CBD-A), cannabigerol (CBG), cannabinol (CBN), Tetrahydrocannabinol (THC) and tetrahydrocannabinolic acid (THC-A) - The sample was extracted into solvent and diluted before the cannabinnoids were determined using LC-UV. Accuracy of the method was assessed by overspiking blank oil with a known concentration of each cannabinoid. **These analytes do not fall under the scope of our ISO17025 accreditation.**

4. RESULTS

4.1 Cannabidiol

Sample information		
Fera reference	**Sample identification**	**CBD (%)**
S20-031621	Broad spectrum CBD tincture 2000mg. B/N 2000/01	**17.4**

Expanded relative measurement uncertainty (95% confidence) for CBD is 12.8%.

4.2 Cannabichromene (CBC), cannabidiolic acid (CBD-A), cannabigerol (CBG), cannabinol (CBN), Tetrahydrocannabinol (THC) and tetrahydrocannabinolic acid (THC-A)

Sample identification		Other cannabinoid concentrations (%)					
Fera reference	**Sample identification**	**CBC**	**CBDA**	**CBG**	**CBN**	**THC**	**THCA**
S20-031621	Broad spectrum CBD tincture 2000mg. B/N 2000/01	**0.089**	**<0.002**	**0.015**	**0.028**	**0.017**	**0.090**

Issuing Officer:	Mark Harrison, Analytical chemist	**Date:**	02/07/20
Countersigning Manager:	Rosario Romero, Senior analytical chemist	**Date:**	06/07/20

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Test Report No.: FR001224_S20030415b **Date: 19th June 2020**

Customer:	**MG Group Limited**
Analysis:	**Suite of 7 cannabinoids by HPLC-UV**
Matrix:	**CBD oil**
Received:	**4th of June 2020**
Analysed	**8th to 12th of June 2020**

1. BACKGROUND

This report describes the analytical testing of a CBD sample product.
The term "CBD" is an acronym for cannabidiol, which is one of several cannabinoids, or chemical compounds, that are found in cannabis and hemp plants.
The sample was analysed for the concentrations of 7 cannabinoids:

- **CBC,** Cannabichromene
- **CBD,** Cannabidiol
- **CBDA,** Cannabidiolic acid
- **CBG,** Cannabigerol
- **CBN,** Cannabinol
- **THC,** Tetrahydrocannabinol
- **THCA,** Tetrahydrocannabinolic acid

2. SAMPLE DESCRIPTION

The sample was received at the laboratory in satisfactory condition and stored at ambient temperature prior to analysis.
The sample was received in a 10 mL amber glass vial with black plastic screw cap. A label with the customers identification letter was attached to the side of the vial.

A unique identifying number was assigned to the sample using the Fera laboratory information management system. The relevant sample details are shown in the table below.

Sample information				
Fera reference	**Sample identification**	**Sample type**	**Batch/LOT code**	**Best before**
S20-030415	Broad spectrum CBD tincture 3000mg. B/N 3000/01	Broad spectrum oil	B/N 3000/01	N/A

3. SAMPLING AND ANALYSIS

3.1 Cannabinoids

Cannabidiol (CBD) - The sample was extracted into solvent and diluted before CBD was determined using LC-UV. Accuracy of the method was assessed by analysing in-house reference material with known concentrations of CBD alongside the sample.

Cannabichromene (CBC), cannabidiolic acid (CBD-A), cannabigerol (CBG), cannabinol (CBN), Tetrahydrocannabinol (THC) and tetrahydrocannabinolic acid (THC-A) - The sample was extracted into solvent and diluted before the cannabinnoids were determined using LC-UV. Accuracy of the method was assessed by overspiking blank oil with a known concentration of each cannabinoid. **This method does not fall under the scope of our ISO17025 accreditation.**

4. RESULTS

4.1 Cannabidiol

Sample information		
Fera reference	**Customer identification**	**CBD (%)**
S20-030415	Broad spectrum CBD tincture 3000mg. B/N 3000/01	**28.4**

Expanded relative measurement uncertainty (95% confidence) for CBD is 12.8%.

4.2 Cannabichromene (CBC), cannabidiolic acid (CBD-A), cannabigerol (CBG), cannabinol (CBN), Tetrahydrocannabinol (THC) and tetrahydrocannabinolic acid (THC-A)

Sample identification		Other cannabinoid concentrations (%)					
Fera reference	**Sample identification**	**CBC**	**CBDA**	**CBG**	**CBN**	**THC**	**THCA**
S20-030415	Broad spectrum CBD tincture 3000mg. B/N 3000/01	**0.15**	**< 0.002**	**0.02**	**0.05**	**0.02**	**0.03**

Issuing Officer:	Mark Harrison, Analytical chemist	**Date:**	12/06/20
Countersigning Manager:	Rosario Romero, Senior analytical chemist	**Date:**	16/06/20

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1642

Test Report No.: FR001224_S20031622 **Date: 6th July 2020**

Customer:	**MG Group Limited**
Analysis:	**Suite of 7 cannabinoids by HPLC-UV**
Matrix:	**CBD oil**
Received:	**24th of June 2020**
Analysed	**26th of June to 1st of July 2020**

1. BACKGROUND

This report describes the analytical testing of a CBD sample product.
The term "CBD" is an acronym for cannabidiol, which is one of several cannabinoids, or chemical compounds, that are found in cannabis and hemp plants.
The sample was analysed for the concentrations of 7 cannabinoids:

- **CBC,** Cannabichromene
- **CBD,** Cannabidiol
- **CBDA,** Cannabidiolic acid
- **CBG,** Cannabigerol
- **CBN,** Cannabinol
- **THC,** Tetrahydrocannabinol
- **THCA,** Tetrahydrocannabinolic acid

2. SAMPLE DESCRIPTION

The sample was received at the laboratory in satisfactory condition and stored at ambient temperature prior to analysis.
The sample was received in a 10 mL amber glass vial with black plastic screw cap. A label with the customers identification letter was attached to the side of the vial.

A unique identifying number was assigned to the sample using the Fera laboratory information management system. The relevant sample details are shown in the table below.

Sample information					
Fera reference	**Sample identification**	**Bottle label**	**Sample type**	**Batch/LOT code**	**Best before**
S20-031622	Broad spectrum CBD tincture 4000mg. B/N 4000/01	Full spec 4000 E	Broad spectrum oil	B/N 4000/01	N/A

3. SAMPLING AND ANALYSIS

3.1 Cannabinoids

Cannabidiol (CBD) - The sample was extracted into solvent and diluted before CBD was determined using LC-UV. Accuracy of the method was assessed by analysing in-house reference material with known concentrations of CBD alongside the sample.

Cannabichromene (CBC), cannabidiolic acid (CBD-A), cannabigerol (CBG), cannabinol (CBN), Tetrahydrocannabinol (THC) and tetrahydrocannabinolic acid (THC-A) - The sample was extracted into solvent and diluted before the cannabinnoids were determined using LC-UV. Accuracy of the method was assessed by overspiking blank oil with a known concentration of each cannabinoid. **These analytes do not fall under the scope of our ISO17025 accreditation.**

4. RESULTS

4.1 Cannabidiol

Sample information		
Fera reference	**Sample identification**	**CBD (%)**
S20-031622	Broad spectrum CBD tincture 4000mg. B/N 4000/01	**35.9**

Expanded relative measurement uncertainty (95% confidence) for CBD is 12.8%.

4.2 Cannabichromene (CBC), cannabidiolic acid (CBD-A), cannabigerol (CBG), cannabinol (CBN), Tetrahydrocannabinol (THC) and tetrahydrocannabinolic acid (THC-A)

Sample identification		Other cannabinoid concentrations (%)					
Fera reference	**Sample identification**	**CBC**	**CBDA**	**CBG**	**CBN**	**THC**	**THCA**
S20-031622	Broad spectrum CBD tincture 4000mg. B/N 4000/01	**0.181**	**<0.002**	**0.035**	**0.057**	**0.043**	**0.196**

Issuing Officer:	Mark Harrison, Analytical chemist	**Date:**	02/07/20
Countersigning Manager:	Rosario Romero, Senior analytical chemist	**Date:**	06/07/20