



CERTIFICATE OF ANALYSIS

Product Name: Ligandrol
CAS No.: 1165910-22-4
Batch No.: L-280621-1
MFG: 28.06.2021

Testing Items	Specifications	Results
1	2	3
Appearance	White powder	Conform
Identification	MS, 338,2±1	Conform
	HPLC, retention time	Conform
Purity (HPLC)	≥98%	99,7%
Water	≤1,0%	0,8%
Residue on ignition	≤1,0%	0.09 %
Heavy metal	≤10ppm	Conform
Aerobic bacteria	≤1000 CFU/g	Conform
Yeasts and moulds	≤100 CFU/g	Conform
E.Coli	Negative	Negative

Conclusion: the product complies with specification



UV chromatogram:

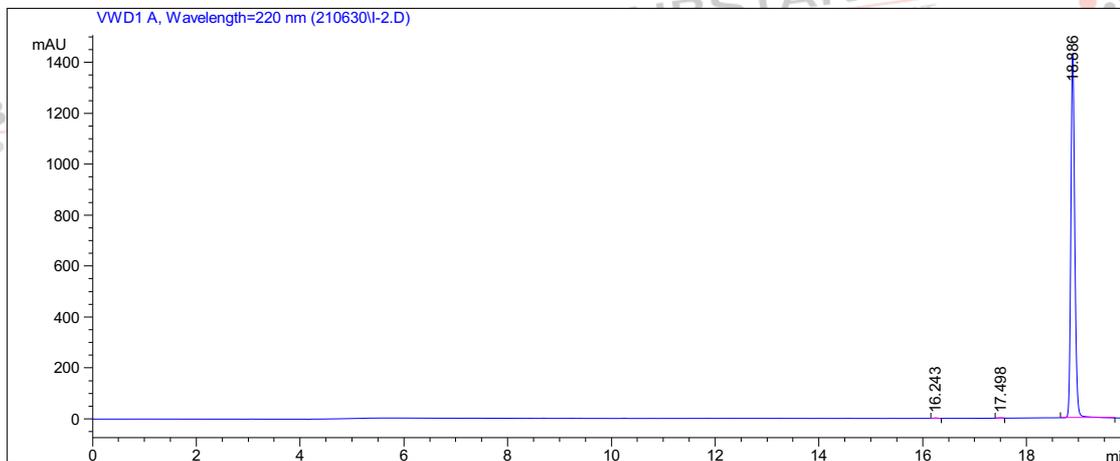
Data File D:\DATA\210630\I-2.D
Sample Name: I-2

```

=====
Acq. Operator   :                               Seq. Line :    1
Acq. Instrument : Instrument 1                 Location  : Vial 11
Injection Date  : 6/30/2021 1:57:37 PM        Inj       :    1
                                                Inj Volume:    2 µl

Acq. Method     : D:\METHODS\CHROM_ADC_PN.m
Last changed    : 6/30/2021 1:56:54 PM
Analysis Method : D:\METHODS\CHROM_25_30.M
Last changed    : 7/2/2021 3:38:47 PM
Sample Info     : Column: Reprosil-Pur Basic C18  250*4.6 mm 5µm
                  A: H2O  0,01% tfa  B: MeCN 0,01% tfa
                  5-100 %B at 20min
=====

```



Area Percent Report

```

Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Use Multiplier & Dilution Factor with ISTDs

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Signal 1: VWD1 A, Wavelength=220 nm

Peak #	RetTime [min]	Type	Width [min]	Area mAU*s	Height [mAU]	Area %
1	16.243	MM	0.1029	12.80364	2.07340	0.1700
2	17.498	MM	0.0983	7.84533	1.33059	0.1042
3	18.886	MM	0.0872	7509.46777	1435.98743	99.7258

Totals : 7530.11674 1439.39142

*** End of Report ***



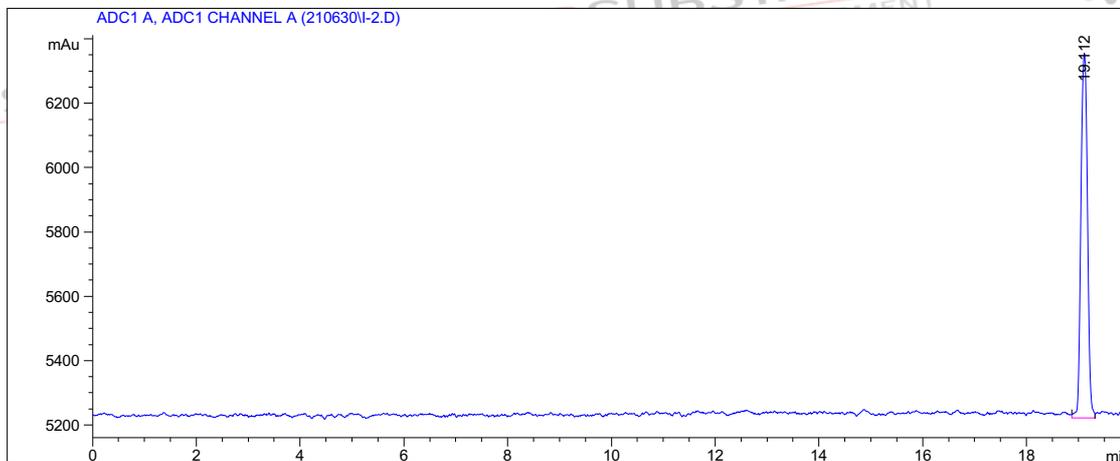
ELSD chromatogram:

Data File D:\DATA\210630\I-2.D
Sample Name: I-2

```

=====
Acq. Operator   :                               Seq. Line :    1
Acq. Instrument : Instrument 1                 Location  : Vial 11
Injection Date  : 6/30/2021 1:57:37 PM      Inj       :    1
                                           Inj Volume:    2 µl

Acq. Method     : D:\METHODS\CHROM_ADC_PN.m
Last changed    : 6/30/2021 1:56:54 PM
Analysis Method : D:\METHODS\CHROM_25_30.M
Last changed    : 7/2/2021 3:38:47 PM
Sample Info     : Column: Reprosil-Pur Basic C18  250*4.6 mm 5µm
                  A: H2O  0,01% tfa  B: MeCN 0,01% tfa
                  5-100 %B at 20min
=====
    
```



Area Percent Report

```

Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
    
```

Signal 1: ADC1 A, ADC1 CHANNEL A

Peak #	RetTime [min]	Type	Width [min]	Area [mAu*s]	Height [mAu]	Area %
1	19.112	VV	0.1424	9964.79883	1135.27234	100.0000

Totals : 9964.79883 1135.27234

*** End of Report ***



Mass spectrum:

Analysis Name: I-2.D
Method: CHROM_ADC_PN.M
Sample Name: I-2
Analysis Info: Column: Reprisil-Pur Basic C18 250*4.6 mm 5um
 A: H2O 0,01% tfa B: MeCN 0,01% tfa
 5-100 %B at 20min
Instrument: LC-MSD-Trap-SL
Operator: LCMS

Print Date: 7/2/2021 3:58:58 PM
Acq. Date: 6/30/2021 1:57:49 PM

