

Certificate of Analysis

Ceapro Product Name: **CP Oat Avenanthramide Extract**
 Ceapro Product Number: **902-3043**
 Lot Number: **ED26C3**
 Manufacturing Date: **March 2026**
 Expiry Date: **March 2027**
 Storage Conditions: **Store at controlled room temperature only. Protect from light. Any unused portion should be kept sealed in the original container to avoid any contamination.**
 Sales Order Number: **3412**
 Client Purchase Order Number: **1181**

Product Characteristics	Specification	Analysis
Color	Pale yellow - brown	Brown
Appearance	Clear-hazy liquid	Hazy
Odor	Ceapro Reference Standard	Pass
Physical-chemical Properties		
Avenanthramides ¹ , AV-A, AV-B and AV-C (ppm)	100.0-120.0	119.6
Protein ² (%)	<2.00	0.90
Turbidity ³ (NTU) @ 25°C	<20.00	11.91
pH @ 25°C	3.50-5.00	4.37
Microbiological Properties		
Aerobic Plate Count ⁴ (cfu/mL)	max 100	<1
Yeasts & Moulds ⁵ (cfu/mL)	max 10	<5
Gram Negative Bacteria (cfu/mL)	Absent	Absent
[<i>Escherichia coli</i> ⁶ , <i>Pseudomonas aeruginosa</i> ⁷ , and <i>Salmonella spp</i> ⁸]		
Staphylococcus aureus ⁹ (cfu/mL)	Absent	Absent
Gram negative Rods	Absent	Absent
Residual Solvent ¹⁰ (%)	2.5 max	1.7
Impurity:		
Diethylene Glycol ¹¹ (%)	0.10 max	<0.10
Ethylene Glycol ¹¹ (%)	0.10 max	<0.10
Preservative:		
0.2% (w/w) Potassium sorbate		

Product formulated in : glycerol and water (1:1 w/w)

References

- ¹ Assayed by Ceapro HPLC method (QC-SOP-004)
² Assayed by method of Kjeldahl: AOAC
³ Determination of Turbidity by Nephelometry (EPA Method 180.1)
⁴ Determination of the Aerobic Colony Count in Food (MFHPB-18)
⁵ Enumeration of Yeast and Moulds in Foods (MFHPB-22)
⁶ Enumeration of *E.coli* and Coliforms (MFHPB-34)
⁷ Enumeration of *Pseudomonas spp* (Proto#1008SP)
⁸ Methods for the Detection of *Salmonella* (MFLP-29)
⁹ Enumeration of *Staphylococcus aureus* in Foods (MFHPB-21)
¹⁰ Analysis of Ethanol Using Megazyme Method (QC-SOP-014)
¹¹ Analysis of Diethylene glycol by GC-FID method

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Date: March 20, 2026