

Boletim Analítico nº 20257450

Amostras de Solos

Versão: 1

Boletim Definitivo

Requisitante: Câmara Municipal de Mira**Morada:** Praça de República, 3070 - Mira, Mira**Designação da Amostra:** Areia Praia de Mira**Identificação da Amostra**

Data de Colheita:	20/08/2025	Colheita Efetuada por:	José Silva - Equilibrium
Hora de Colheita:	14:20	Método de Colheita:	MI 54 (Solos)
Ponto de Colheita:	Praia de Mira	Tipo de Análise:	MB (amostra composta)
Área:	---	Profundidade:	5-15cm

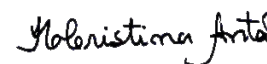
Determinação Analítica

Data/Hora de Entrada:	20/08/2025	Início:	20/08/2025	Fim:	25/08/2025	Ref. Amostra:	20257450
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Parâmetro	Método	Unidade	Resultado
Quantificação de Bolors e Leveduras	MI 92 (2023-08-04)	UFC/g	1.5x10 ²
Quantificação de E.coli	MI 88	UFC/g	<1.0x10 ¹
Quantificação de Enterococos	MI 89	UFC/g	<1.0x10 ¹

Emissão

28/08/2025



Dra Cristina Antão

Diretor de Laboratório

(Este Boletim Analítico foi assinado digitalmente)

Notes and subtitles:

NP: Norma Portuguesa
ISO: International Standard Organization
AFNOR: Association Française de Normalisation
EN: European Standard
DIN: Deutsches Institut für Normung
ASTM: American Society for Testing and Materials
N/A: Not applicable

MI: Intern Method
LQ: Limit of Quantification
LD: Limit of Detection
MRV: Max. Recommended Value
MAV: Max. Admissible Value
CFU: Colony-forming Unit
MPN: Most Probable Number
N=CFU=MPN

In the results obtained by calculation based on individual results, the quantifiable portions will be counted, disregarding the portions <LQ. If all installments are <LQ, the issued value will be the method's LQ. The uncertainty of the method is presented at a confidence level of $\approx 95\%$, $k=2$. The presentation of the result as $\leq$ to the LQ corresponds to the guard band associated with the analytical uncertainty (Uan). It's negligible to uncertainty as not more than 1/5 of the total contributions, in terms of the respective standard uncertainty. Global Uncertainty (Ug) is calculated by combining (Uan) or Result Uncertainty (Ures) and Sampling Uncertainty (Uam), when presented, according to the formula: $Ug = \sqrt{Uan^2 + Ures^2 + Uam^2}$, only in accredited sampling and performed by the Lab. When unaccredited sampling, do not consider the (Uam). The Laboratory does not take uncertainty into account in the declaration of conformity. When sampling not performed by the Lab: "Sample Description" and "Sample Identification" provided by the customer are your responsibility. Results apply to the sample as received. Test Report valid only for the analyzed batch.

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— FIM DO BOLETIM ANALÍTICO —

Boletim Analítico nº 20256484

Amostras de Solos

Versão: 1

Boletim Definitivo

Requisitante: Câmara Municipal de Mira**Morada:** Praça de República, 3070 - Mira, Mira**Designação da Amostra:** Areia Praia de Mira**Identificação da Amostra**

Data de Colheita:	21/07/2025	Colheita Efetuada por:	José Silva - Equilibrium
Hora de Colheita:	15:00	Método de Colheita:	MI 54 (Solos)
Ponto de Colheita:	Praia de Mira	Tipo de Análise:	MB (amostra composta)
Área:	---	Profundidade:	5-15cm

Determinação Analítica

Data/Hora de Entrada:	21/07/2025	Início:	21/07/2025	Fim:	28/07/2025	Ref. Amostra:	20256484
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Parâmetro	Método	Unidade	Resultado
Quantificação de Bolors e Leveduras	MI 92 (2023-08-04)	UFC/g	9.0x10 ⁰
Quantificação de E.coli	MI 88	UFC/g	<1.0x10 ¹
Quantificação de Enterococos	MI 89	UFC/g	<1.0x10 ¹

Emissão

28/07/2025



Dra Cristina Antão

Diretor de Laboratório

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N/A: Not applicable

MI: Intern Method
LQ: Limit of Quantification
LD: Limit of Detection
MRV: Max. Recommended Value
MAV: Max. Admissible Value
CFU: Colony-forming Unit
MPN: Most Probable Number
N=CFU=MPN

In the results obtained by calculation based on individual results, the quantifiable portions will be counted, disregarding the portions <LQ. If all installments are <LQ, the issued value will be the method's LQ. The uncertainty of the method is presented at a confidence level of $\approx 95\%$, $k=2$. The presentation of the result as $\leq$ to the LQ corresponds to the guard band associated with the analytical uncertainty (Uan). It's negligible to uncertainty as not more than 1/5 of the total contributions, in terms of the respective standard uncertainty. Global Uncertainty (Ug) is calculated by combining (Uan) or Result Uncertainty (Ures) and Sampling Uncertainty (Uam), when presented, according to the formula: $Ug = \sqrt{Uan^2 + Ures^2 + Uam^2}$, only in accredited sampling and performed by the Lab. When unaccredited sampling, do not consider the (Uam). The Laboratory does not take uncertainty into account in the declaration of conformity. When sampling not performed by the Lab: "Sample Description" and "Sample Identification" provided by the customer are your responsibility. Results apply to the sample as received. Test Report valid only for the analyzed batch.

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— FIM DO BOLETIM ANALÍTICO —

Boletim Analítico nº 20255340

Amostras de Solos

Versão: 1

Boletim Definitivo

Requisitante: Câmara Municipal de Mira**Morada:** Praça de República, 3070 - Mira, Mira**Designação da Amostra:** Areia Praia de Mira**Identificação da Amostra**

Data de Colheita:	25/06/2025	Colheita Efetuada por:	José Silva - Equilibrium
Hora de Colheita:	15:00	Método de Colheita:	MI 54 (Solos)
Ponto de Colheita:	Praia de Mira	Tipo de Análise:	MB (amostra composta)
Área:	---	Profundidade:	5-15cm

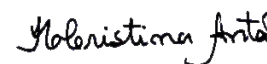
Determinação Analítica

Data/Hora de Entrada:	25/06/2025	Início:	25/06/2025	Fim:	01/07/2025	Ref. Amostra:	20255340
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Parâmetro	Método	Unidade	Resultado
Quantificação de Bolors e Leveduras	MI 92 (2023-08-04)	UFC/g	1.6x10 ²
Quantificação de E.coli	MI 88	UFC/g	<1.0x10 ¹
Quantificação de Enterococos	MI 89	UFC/g	2.0x10 ¹

Emissão

01/07/2025



Dra Cristina Antão

Diretor de Laboratório

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— FIM DO BOLETIM ANALÍTICO —

Boletim Analítico nº 20254588

Amostras de Solos

Versão: 1

Boletim Definitivo

Requisitante: Câmara Municipal de Mira**Morada:** Praça de República, 3070 - Mira, Mira**Designação da Amostra:** Areia Praia de Mira**Identificação da Amostra**

Data de Colheita:	28/05/2025	Colheita Efetuada por:	José Silva - Equilibrium
Hora de Colheita:	14:35	Método de Colheita:	MI 54 (Solos)
Ponto de Colheita:	Praia de Mira	Tipo de Análise:	MB (amostra composta)
Área:	---	Profundidade:	5-15cm

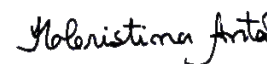
Determinação Analítica

Data/Hora de Entrada:	28/05/2025	Início:	28/05/2025	Fim:	03/06/2025	Ref. Amostra:	20254588
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Parâmetro	Método	Unidade	Resultado
Quantificação de Bolors e Leveduras	MI 92 (2023-08-04)	UFC/g	1.6x10 ²
Quantificação de E.coli	MI 88	UFC/g	<1.0x10 ¹
Quantificação de Enterococos	MI 89	UFC/g	<1.0x10 ¹

Emissão

03/06/2025



Dra Cristina Antão

Diretor de Laboratório

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