



Laboratório de Ensaio acreditado
pela Cgcre/Inmetro de acordo com
a ABNT NBR ISO/IEC 17025.



Boletim de Ensaio

Pág. 1 de 3

Resp. Téc.: **Carina Casal**

Emitido em: **09.04.2010**

Lab-nº: **09/3777C**

Análise em amostras de solo

Cliente : Fundação Bio-Rio / Petrobras – UN-BS
Endereço : Av. Carlos Chagas Filho, nº 791
Cidade Universitária - Rio de Janeiro - RJ
Localização do Projeto : Bacia de Santos
Data da Coleta : 15 e 16.12.2009
Entrega das amostras : 18.12.2009
Início dos ensaios/extração : 18.12.2009 13:11
Término dos ensaios : 09.04.2010

INNOLAB do Brasil Ltda.
Rua Sacadura Cabral - 236
Saúde - Rio de Janeiro - RJ
Cep. 20221-161
CNPJ. 04.183.043/0001-00
Tel. (21) 3509-1750
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Projeto : PAI-projeto de Avaliação de Impactos da Bacia de Santos
Gerente do Projeto : Cristina Falcão

Parâmetro	MLZ#21-R1(0-2 cm) (µg/kg)	MLZ#21-R2(0-2 cm) (µg/kg)	MLZ#21-R3(0-2 cm) (µg/kg)	MLZ #22-R1(0-2 cm) (µg/kg)	L.D. (µg/kg)
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n-Alcanos C5 – C7

n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1

Parâmetro	MLZ #22-R2(0-2 cm) (µg/kg)	MLZ #22-R3(0-2 cm) (µg/kg)	MLZ #23-R1(0-2 cm) (µg/kg)	MLZ #23-R2(0-2 cm) (µg/kg)	L.D. (µg/kg)
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n-Alcanos C5 – C7

n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1

Parâmetro	MLZ #23-R3(0-2 cm) (µg/kg)	MLZ #24-R1(0-2 cm) (µg/kg)	MLZ #24-R2(0-2 cm) (µg/kg)	MLZ #24-R3(0-2 cm) (µg/kg)	L.D. (µg/kg)
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n-Alcanos C5 – C7

n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1

Parâmetro	MLZ #31-R1(0-2 cm) (µg/kg)	MLZ #31-R2(0-2 cm) (µg/kg)	MLZ #31-R3(0-2 cm) (µg/kg)	MLZ #32-R1(0-2 cm) (µg/kg)	L.D. (µg/kg)
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n-Alcanos C5 – C7

n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1

Conferido (L)



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Boletim de Ensaio

Pág. 2 de 3

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Parâmetro	MLZ #32-R2(0-2cm) (µg/kg)	MLZ #32-R3(0-2cm) (µg/kg)	MLZ #33-R1(0-2cm) (µg/kg)	MLZ #33-R2(0-2cm) (µg/kg)	L.D. (µg/kg)
n-Alcanos C5 – C7					
n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1
Parâmetro	MLZ #33-R3(0-2cm) (µg/kg)	MLZ #34-R1(0-2cm) (µg/kg)	MLZ #34-R2(0-2cm) (µg/kg)	MLZ #34-R3(0-2cm) (µg/kg)	L.D. (µg/kg)
n-Alcanos C5 – C7					
n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1
Parâmetro	MLZ #41-R1(0-2cm) (µg/kg)	MLZ #41-R2(0-2cm) (µg/kg)	MLZ #41-R3(0-2cm) (µg/kg)	MLZ #42-R1(0-2cm) (µg/kg)	L.D. (µg/kg)
n-Alcanos C5 – C7					
n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1
Parâmetro	MLZ #42-R2(0-2cm) (µg/kg)	MLZ #42-R3(0-2cm) (µg/kg)	MLZ #43-R1(0-2cm) (µg/kg)	MLZ #43-R2(0-2cm) (µg/kg)	L.D. (µg/kg)
n-Alcanos C5 – C7					
n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1
Parâmetro	MLZ #43-R3(0-2cm) (µg/kg)	MLZ #44-R1(0-2cm) (µg/kg)	MLZ #44-R2(0-2cm) (µg/kg)	MLZ #44-R3(0-2cm) (µg/kg)	L.D. (µg/kg)
n-Alcanos C5 – C7					
n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1



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Boletim de Ensaio

Pág. 3 de 3

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Parâmetro	MLZ #51-R1(0-2cm) (µg/kg)	MLZ #51-R2(0-2cm) (µg/kg)	MLZ #51-R3(0-2cm) (µg/kg)	MLZ #52-R1(0-2cm) (µg/kg)	L.D. (µg/kg)
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n-Alcanos C5 – C7

n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1

Parâmetro	MLZ #52-R2(0-2cm) (µg/kg)	MLZ #52-R3(0-2cm) (µg/kg)	MLZ #53-R1(0-2cm) (µg/kg)	MLZ #53-R2(0-2cm) (µg/kg)	L.D. (µg/kg)
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n-Alcanos C5 – C7

n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1

Parâmetro	MLZ #53-R3(0-2cm) (µg/kg)	MLZ #54-R1(0-2cm) (µg/kg)	MLZ #54-R2(0-2cm) (µg/kg)	MLZ #54-R3(0-2cm) (µg/kg)	L.D. (µg/kg)
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n-Alcanos C5 – C7


n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1

FM-004-L3N – Rev.00 18/02/2009– Apr. FEV/09

Observações

1. Ref. Método – U.S.EPA 8260
2. Foram utilizados Brancos de Controle conforme metodologia informada conferido


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