



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



## Boletim de Ensaio

Pág. 1 de 4

Resp. Téc.: **Carina Casal**

Emitido em: **27/04/2010**

Lab-nº: **09/3802D**

### Análise em amostras de solo

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  
Fax (21) 2233-4621

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 : 10, 11 e 12/12/2009  
Entrega das amostras : 18/12/2009  
Início dos ensaios/extração : 18/12/2009 14:01  
Término dos ensaios : 27/04/2010  
  
Projeto : PAI - Projeto de Avaliação de Impactos da Bacia de Santos  
Gerente do Projeto : Cristina Falcão

Parâmetro	SPS-29#11-R1(0-2cm) (µg/kg)	SPS-29#11-R2(0-2cm) (µg/kg)	SPS-29#11-R3(0-2cm) (µg/kg)	SPS-29#12-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	SPS-29#12-R2(0-2cm) (µg/kg)	SPS-29#12-R3(0-2cm) (µg/kg)	SPS-29#13-R1(0-2cm) (µg/kg)	SPS-29#13-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	SPS-29#13-R3(0-2cm) (µg/kg)	SPS-29#14-R1(0-2cm) (µg/kg)	SPS-29#14-R2(0-2cm) (µg/kg)	SPS-29#14-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

Parâmetro	SPS-29#21-R1(0-2cm) (µg/kg)	SPS-29#21-R2(0-2cm) (µg/kg)	SPS-29#21-R3(0-2cm) (µg/kg)	SPS-29#22-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

Conferido (L)



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Pág. 2 de 4

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Parâmetro	SPS-29#22-R2(0-2cm) (µg/kg)	SPS-29#22-R3(0-2cm) (µg/kg)	SPS-29#23-R1(0-2cm) (µg/kg)	SPS-29#23-R2(0-2cm) (µg/kg)	L.D. (µg/kg)
<b>n-Alcanos C5 – C7</b>					
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	SPS-29#23-R3(0-2cm) (µg/kg)	SPS-29#24-R1(0-2cm) (µg/kg)	SPS-29#24-R2(0-2cm) (µg/kg)	SPS-29#24-R3(0-2cm) (µg/kg)	L.D. (µg/kg)
<b>n-Alcanos C5 – C7</b>					
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	SPS-29#31-R1(0-2cm) (µg/kg)	SPS-29#31-R2(0-2cm) (µg/kg)	SPS-29#31-R3(0-2cm) (µg/kg)	SPS-29#32-R1(0-2cm) (µg/kg)	L.D. (µg/kg)
<b>n-Alcanos C5 – C7</b>					
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	SPS-29#32-R2(0-2cm) (µg/kg)	SPS-29#32-R3(0-2cm) (µg/kg)	SPS-29#33-R1(0-2cm) (µg/kg)	SPS-29#33-R2(0-2cm) (µg/kg)	L.D. (µg/kg)
<b>n-Alcanos C5 – C7</b>					
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	SPS-29#33-R3(0-2cm) (µg/kg)	SPS-29#34-R1(0-2cm) (µg/kg)	SPS-29#34-R2(0-2cm) (µg/kg)	SPS-29#34-R3(0-2cm) (µg/kg)	L.D. (µg/kg)
<b>n-Alcanos C5 – C7</b>					
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 4

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Parâmetro	SPS-29#41-R1(0-2cm) (µg/kg)	SPS-29#41-R2(0-2cm) (µg/kg)	SPS-29#41-R3(0-2cm) (µg/kg)	SPS-29#42-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	SPS-29#42-R2(0-2cm) (µg/kg)	SPS-29#42-R3(0-2cm) (µg/kg)	SPS-29#43-R1(0-2cm) (µg/kg)	SPS-29#43-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	SPS-29#43-R3(0-2cm) (µg/kg)	SPS-29#44-R1(0-2cm) (µg/kg)	SPS-29#44-R2(0-2cm) (µg/kg)	SPS-29#44-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

Parâmetro	SPS-29#51-R1(0-2cm) (µg/kg)	SPS-29#51-R2(0-2cm) (µg/kg)	SPS-29#51-R3(0-2cm) (µg/kg)	SPS-29#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	SPS-29#52-R2(0-2cm) (µg/kg)	SPS-29#52-R3(0-2cm) (µg/kg)	SPS-29#53-R1(0-2cm) (µg/kg)	SPS-29#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

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## Boletim de Ensaio

Pág. 4 de 4

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Parâmetro	SPS-29#53-R3(0-2cm) (µg/kg)	SPS-29#54-R1(0-2cm) (µg/kg)	SPS-29#54-R2(0-2cm) (µg/kg)	SPS-29#54-R3(0-2cm) (µg/kg)	L.D. (µg/kg)
<b>n-Alcanos C5 – C7</b>					
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 – ISO 16703:2001
2. Foram utilizados Brancos de Controle conforme metodologia informada conferido

  
José Antônio Pires de Mello  
Diretor  
B. Sc, Eng. Quím. e Quím. Industrial  
CRQ – 03311142 CREA - 791006469

  
CARINA SANTOS CASAL  
Chefe Laboratório  
Químico  
CRQ - 03251114