



SGS GEOSOL LABORATÓRIOS LTDA.

CERTIFICATE OF ANALYSIS
GQ1204821

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Company: Cochimag Minerals
Bd Mohamed Ben Abdellah, Mohemedia
Morocco

Attn.: J. Moreira


Client Ref.: Pedido 16/07/2012
Sample Information: MINERIO DE FERRO
Project:

No. of Samples: 1
Date Received: jul-16-2012
Date Sent: jul-30-2012
Date Completed: jul-30-2012

Analytical Codes:
CLA80C Potassium Dichromate / Titration Method
CSA17V Combustion/Calcination - LECO
DRY10
PHY01E LOI: Loss on ignition - 1000°C
XRF79C Lithium Tetraborate Fusion / XRF.

Code Keys:

L.D. = Detection Limit BLK = Blank REP = Replicate DUP = Duplicate
L.N.R. = Listed not Received I.S. = Insufficient Sample N.A. = No Analysed STD = Standard


Marcos Filipe Gonçalves Silva
CRQ II 02202046
Chemist

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Element Method Unit L.D.	UMIDADE	SiO2	Al2O3	CaO	TiO2	MgO	K2O	Na2O	Fe	P	Mn
	DRY10 %	XRF79C %	XRF79C %	XRF79C %	XRF79C %	XRF79C %	XRF79C %	XRF79C %	XRF79C %	XRF79C %	XRF79C %
	0.01	0.10	0.10	0.01	0.01	0.10	0.01	0.10	0.007	0.005	0.008
BRANCO_PREP	N.A.	98.0	<0.10	0.02	<0.01	<0.10	0.01	<0.10	1.35	<0.005	0.01
MIX COLETA NPX 1.20/2.00M DA MINA	<0.01	10.0	4.45	1.67	0.32	0.86	0.01	<0.10	53.0	0.524	0.08
* REP BRANCO_PREP		98.1	<0.10	0.02	<0.01	<0.10	0.02	<0.10	1.36	<0.005	0.01
* STD SG_070		40.8	1.59	0.03	0.04	<0.10	0.02	<0.10	39.3	0.031	0.02

Element Method Unit L.D.	Fe2O3_C	LOI	FeO	S
	XRF79C %	PHY01E %	CLA80C %	CSA17V %
	0.01	-45.00	0.14	0.01
BRANCO_PREP	<0.01	-0.42	1.85	<0.01
MIX COLETA NPX 1.20/2.00M DA MINA	70.2	5.69	5.01	0.04
* REP BRANCO_PREP			1.74	
* REP BRANCO_PREP				<0.01
* REP BRANCO_PREP		-0.44		
* STD SG_070		0.88		
* REP BRANCO_PREP	N.A.			
* STD SG_070	N.A.			
* STD SG_051			2.91	