

A simple, fast and inexpensive approach to quantify low concentrations of iron in biodiesel by voltammetry after extraction induced by microemulsion breaking

APPENDIX A – SUPPLEMENTARY DATA

Cristian H. Krause^a, Alexandre B. Schneider^{a,*}, Leandro Kolling^a, Lauren T. T. Oliveira^a, Márcia M. da Silva^a

^aInstituto de Química, Universidade Federal do Rio Grande do Sul, Av. Bento Gonçalves, 9500, C.P. 15003, 91501-970, Porto Alegre, RS, Brazil

* Corresponding author: Tel +55 51 3308 7318

* E-mail address: schneider.alexandre@ufrgs.br

A.1. Instrumental conditions for Fe determination by using the comparative method

Equipament	High-Resolution Continuum Source Atomic Absorption Spectrometer
Model	contrAA 700
Manufacturer	AnalytikJena
Mode	Graphite Furnace
Wavelength	231.096 nm

A.2. Optimized temperature program for Fe determination in biodiesel sample by using the HR-CS GF AAS.

Temperature Program - Ni/Fe simultaneous determination					
Step	Name	Temp, °C	Ramp, °C/s	Hold,s	Purge, L/min
1	Drying 1	80	6	20	2,0
2	Drying 2	90	3	20	2,0
3	Drying 3	110	5	10	2,0
4	Pyrolysis 1	350	50	20	2,0
5	Pyrolysis 2	1050	300	10	2,0
6	Gas Adaption	1050	0	5	0,0
7	Atomize	2400	1200	7	0,0
8	Clean	2600	500	4	2,0