

# Improvement of comprehensive bio-waste transformation and nutrient recovery treatment process for production of combined natural products

## REFERTIL BIOCHAR POLICY SUPPORT

Proposed mandatory parameters for biochar (mg/kg)



Biochar parameters	ORGANIC P FERTILISER	SOIL IMPROVER
As	10	10
Cd	1.5	1.5
Cr	100	100
Cu	200	200
<b>Pb</b>	<b>120</b>	<b>120</b>
Hg	1	1
Ni	50	50
Zn	600	600
<b>PAH<sub>16</sub></b>	<b>6</b>	<b>6</b>
<b>PCB<sub>7</sub></b>	<b>0.2</b>	<b>0.2</b>
PCDD/F5 (ng/kg)	20	20
Germination Inhibition assay	no inhibition	no inhibition
Phytotoxicity	no Phytotox.	no Phytotox.
Particle size distribution	ABC: 1 mm-5 mm 90%	Plant based: 1-20 mm90%
Bulk density	declaration	declaration
Dry matter content	> 80%	> 60%
<b>pH</b>	<b>6-10</b>	<b>6-10</b>
<b>Total Organic C</b>	declaration	<b>20%</b>
N total	declaration	declaration
<b>Total P (P<sub>2</sub>O<sub>5</sub>)</b>	<b>&gt;25 %</b>	<b>declaration</b>
Total K	declaration	declaration
Ca	declaration	declaration
Mg	declaration	declaration
<b>Agronomic efficiency</b>	<b>Should be proved and declared</b>	<b>Should be proved and declared</b>

### The EU FERTILIZER REGULATION revision efforts:

The Commission intends to revise Regulation (EC) No 2003/2003 to **extend its scope to other fertilisers and fertilising materials and possibly including organic fertilisers (ABC biochar), growing media and soil improvers (plant based biochar) and biostimulants.**



#### COORDINATOR CONTACT:

**Edward Someus**  
Biochar S&T engineer

[biochar@3ragrocarbon.com](mailto:biochar@3ragrocarbon.com)  
<http://www.agrocarbon.com>  
<http://www.refertil.info>



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