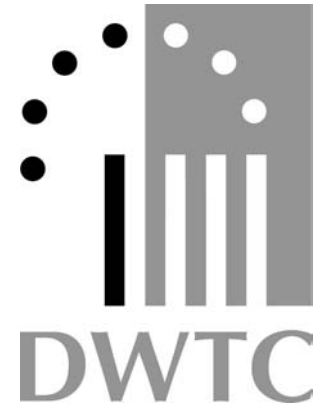


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Inventory of the Belgian biotechnology potential

Use and development of biotechnology

March 2003

MODULE 0: GENERAL COMPANY INFORMATION
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0 A In which year was your company established?

0 B What type of enterprise is your company?

- Company with 1 establishment
 Company with several establishments
 I don't know

0 C Does your company belong to a group *?

(* companies belong to the same group in case they have the same operational shareholder)

No

Yes ⇒ **If yes:**

Please fill out this questionnaire for all subsidiaries located in Belgium (so aggregated for all Belgium establishments, excluding the foreign establishments).

- **When applicable, where are the other Belgium establishments located and what are their names?**

Establishment 1: _____

Establishment 2: _____

Establishment 3: _____

Establishment 4: _____

- **How can you best describe your company?**

- Subsidiary
 Mother company
 I don't know

- **Where is the main office located?** _____

- **What is the nationality of the group?** _____

I don't know

MODULE 1: USE AND DEVELOPMENT OF BIOTECHNOLOGY

This section measures the use of biotechnology in your company and should be filled out by **ALL** enterprises.

A According to the following definition of biotechnology, do you consider your company to be a biotechnology enterprise ?

“Biotechnology refers to the application of R&D to living organisms as well as parts, products and models thereof, to alter living or non-living materials for the production of knowledge, goods and services”.

- Yes |
 No | ⇒ **both** go to question 1B

B As a means to evaluate the definition above, please specify in the table below the activities your company performs. Please cross the categories that are applicable. Furthermore also mark the non-applicable activities.

Biotechnology expertise	USE OF BIOTECH (= utilizing already developed biotech output, hereby excluding the mere selling of biotech products)		DEVELOPPING BIOTECH (=creating biotech output)		If both no, do you plan to use/develop biotech within 3 years ?
	Yes	No	Yes	No	
DNA- the coding					
(e.g. genomics/pharmaco-genetics, gene probes, DNA sequencing synthesis amplification, genetic engineering...)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
Proteins and Molecules- the functional blocks					
(e.g. protein/peptide sequencing/synthesis, lipid-protein engineering, hormones, pheromones, cell receptors signaling growth factors, proteomics...)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
Cell/tissue culture, Embryo manipulation					
(e.g. tissue engineering, embryo manipulation, hybridization, cellular fusion, Vaccine/immune stimulants...)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
Process Biotechnologies					
(e.g. bioreactors, fermentation {excluding beer, bread, cheese and yoghurt}, bioprocessing, bioleaching, bio-pulping, bioleaching, biodesulphurization, bioremediation, biofiltration...)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
Sub-Cellular Organisms					
(e.g. Gene Therapy, Viral Vectors, ...)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
Bioinformatics					
(e.g. defining genes, proteins and their relationships, modeling complex biological processes...)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
Other					
Nanobiotechnologies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
Environmental biotechnology	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
Other, give a brief description	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No

C If you are using or developing more than one of the types of biotechnology listed above, which do you consider your core technology ?

D Give an estimate of the percentage this core technology represents in terms of total:

Personnel %

Costs %

Turn-over %

If you answered "yes" on at least one of the items in Question 1A or 1B	⇒ Go to Module 2
Otherwise	⇒ Thank you for your cooperation Please return the questionnaire

MODULE 2: HUMAN RESOURCES IN BIOTECHNOLOGY

	Employees of which	%women										
A How many employees does your firm employ in Belgium ?	<input type="text"/> empl.	<input type="text"/> %										
B How many of these employees have biotech related responsibilities?	<input type="text"/> empl.	<input type="text"/> %										
1. How many of them are full time* involved in biotech activities? (* 50% or more of their time is spent on biotech related activities)	<input type="text"/> empl.	<input type="text"/> %										
2. How many of them are part time* involved in biotech activities? (* less than 50% of their time is spent on biotech related activities)	<input type="text"/> empl.	<input type="text"/> %										
3. How many employees, of the number mentioned above, are engaged in biotechnology Research and Development?	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><input type="text"/></td> <td style="width: 50%;">Full time empl. of which</td> </tr> <tr> <td><input type="text"/></td> <td>Part time empl. of which</td> </tr> <tr> <td style="text-align: center;">women</td> <td></td> </tr> </table>	<input type="text"/>	Full time empl. of which	<input type="text"/>	Part time empl. of which	women		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><input type="text"/></td> <td style="width: 50%;">% women</td> </tr> <tr> <td><input type="text"/></td> <td>%</td> </tr> </table>	<input type="text"/>	% women	<input type="text"/>	%
<input type="text"/>	Full time empl. of which											
<input type="text"/>	Part time empl. of which											
women												
<input type="text"/>	% women											
<input type="text"/>	%											

MODULE 3: INNOVATIVE ACTIVITIES
--

This module measures the development of new biotechnology products and processes by your firm.

A **Number of years that the company is involved in biotech:** years

B **Do you consider the biotechnology related activities central* to your firm?** Yes No
 (* important in the strategy)

C **Break up of biotechnology activities:**

	Agriculture	Food production and processing	Health care	Environmental care	Pharmaceuticals	Bio-informatics	Other
3C1 Is your firm developing PRODUCTS that require the application of biotechnology? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> I don't know If yes, tick the appropriate category							
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Specify _____
3C2 Is your firm developing PROCESSES that require the application of biotechnology? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> I don't know If yes, tick the appropriate category							
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Specify _____
3C3 Does your firm have biotechnology products/processes on the market? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> I don't know If yes, tick the appropriate category							
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Specify _____

Intellectual property protection:

D **Does your firm possess biotechnology related patents or pending patents?**

- No
 Yes ⇒ **Indicate the number of patents:**

	EPO (European patents)	USPTO (American patents)	Other
Granted patents	<input type="text"/>	<input type="text"/>	<input type="text"/>
Pending patents	<input type="text"/>	<input type="text"/>	<input type="text"/>

E **Does your company possess licenses?**

- No
 Yes ⇒ **Estimate the percentage of the turn-over, derived from:**
bought licenses : % **traded licenses:** %

MODULE 4: NETWORK-ACTIVITIES

In Appendix 2, you will find a list of Belgian companies, organizations and research institution involved in biotechnology.

A Do you know entities, not listed in appendix 2, that are active in biotechnology. This can be entities in the network that you have contacts with as well as entities outside this network. Please complete the coordinates of these entities in the table below.

Type of entity	Name 1 Location 1	Name 2 Location 2	Name 3 Location 3
Clients
Suppliers
Other firms with biotech involvement
Academic institutions and hospitals
Research centers
Other, please specify.....

Sincere thanks for your cooperation!

After the analysis phase you will receive from DWTC a report with the most important findings from this survey.

APPENDIX 1: GENERAL NOMENCLATUUR OF ECONOMICAL ACTIVITIES

Belgian version - NACE-BEL – three digit code

APPENDIX 2: LIST OF BELGIAN ENTERPRISES, ORGANISATIONS AND RESEARCH INSTITUTES POSSIBLY INVOLVED IN BIOTECHNOLOGY.