



**CENTRAL BUREAU  
OF STATISTICS**

Prime Minister's Office

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No. of establishment in the industry:	District:

**SURVEY OF BIOTECHNOLOGICAL COMPANIES 2002**

**PART A: Details and Characteristics of the Company**

**1. Fill in company details**

Company name: \_\_\_\_\_

Former company name (if any): \_\_\_\_\_

Company address: \_\_\_\_\_

Office address (if different from company address): \_\_\_\_\_

Company number: \_\_\_\_\_

Number of deductions file at National Insurance Institute: \_\_\_\_\_

Year of company's establishment: \_\_\_\_\_

Telephone number: \_\_\_\_\_

Additional telephone number: \_\_\_\_\_

Fax: \_\_\_\_\_

Internet site: \_\_\_\_\_

E-mail address: \_\_\_\_\_

**2. What is the company's type of ownership?**

- Owned by one person (over 95% ownership)
- Owned by several partners
- Private shares company (Limited company)
- Public shares company – traded on the stock exchange in Israel and/or abroad
- Cooperative association
- Other – specify \_\_\_\_\_

**3. Does the company have a parent company?**

- Yes. → Continue to question No. 4
- No. → Skip to question No. 5

**4. Specify:**

Name of parent company: \_\_\_\_\_

The country in which the parent company is registered: \_\_\_\_\_

**5. Does the company have subsidiary companies?**

- Yes. → Continue to question No. 6
- No. → Skip to question No. 8

**6. How many of the subsidiaries are registered in Israel? \_\_\_\_\_ (If none, enter '0')**

**7. How many of the subsidiaries are registered abroad? \_\_\_\_\_ (If none, enter '0')**

**8. Does the company have ownership in other companies:**

- Yes. → Continue to question No. 9
- No. → Skip to question No. 10

**9. Specify the names of the companies and the percentage of ownership in them:**

Name of company	Percentage of ownership
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	

## **WHAT IS BIOTECHNOLOGY?**

*“Biotechnology is the application of science and technology to living organisms (as well as parts of organisms, organism products, models, etc.) in order to develop, produce and/or change living and non-living material, for the purpose of producing knowledge, goods or services.”*

## **PART B – Biotechnologies and uses**

### **10. What biotechnologies are used in your company? (You may have more than one reply)**

**10.1 DNA-based biotechnologies** (See details in Table 10.1, page 4)

Yes

No. → Do you intend to use this process in the next three years? **Yes/No**

**10.2 Protein- and molecule-based biotechnologies** (See details in Table 10.2, page 5)

Yes

No. → Do you intend to use this process in the next three years? **Yes/No**

**10.3 Engineering and cultures of cells and tissues** (See details in Table 10.3, page 6)

Yes

No. → Do you intend to use this process in the next three years? **Yes/No**

**10.4 Process biotechnologies** (See details in Table 10.4, page 7)

Yes

No. → Do you intend to use this process in the next three years? **Yes/No**

**10.5 Sub-cell organisms** (See details in Table 10.5, page 8)

Yes

No. → Do you intend to use this process in the next three years? **Yes/No**

**10.6 Other. Specify in Table 10.6** (Page 8)

**Attention:** For any questions between **10.1 – 10.5** in which the answer was ‘yes’, fill in the corresponding tables on pages 4-8.

If the answer to all of the above questions was “no”, proceed to Question No. 11 and list your company’s activity in Question No. 37.

BIOTECHNOLOGIES	Was this process used by your company during 2002?	If so, specify for what purpose this process was used.			If not, do you intend to use this process during the next three years?
		Research & Development	As part of the production process	As part of a sold product/process	
<b>10.1 DNA – Technologies which use DNA chemistry as a major component.</b>					
10.1.1 Genetic Engineering	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
10.1.2 Pharmacogenetics	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
10.1.3 Genomics	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
10.1.4 Gene Probe	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
10.1.5 DNA Synthesis/sequencing	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
10.1.6 PCR	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
10.1.7 Oligos	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
10.1.8 Other. Specify: _____ _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No

BIOTECHNOLOGIES	Was this process used by your company during 2002?	If so, specify for what purpose this process was used.			If not, do you intend to use this process during the next three years?
		Research & Development	As part of the production process	As part of a sold product/process	
<b>10.2 Proteins and Molecules</b>					
10.2.1 Protein/peptide sequencing/synthesis	<input type="checkbox"/> Yes → <input type="checkbox"/> <input type="checkbox"/> No → <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.2.2 Lipid/protein glycoengineering	<input type="checkbox"/> Yes → <input type="checkbox"/> <input type="checkbox"/> No → <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.2.3 Cell receptors/signaling/pheromones	<input type="checkbox"/> Yes → <input type="checkbox"/> <input type="checkbox"/> No → <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.2.4 Proteomics	<input type="checkbox"/> Yes → <input type="checkbox"/> <input type="checkbox"/> No → <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.2.5 Growth factors	<input type="checkbox"/> Yes → <input type="checkbox"/> <input type="checkbox"/> No → <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.2.6 Hormones	<input type="checkbox"/> Yes → <input type="checkbox"/> <input type="checkbox"/> No → <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.2.7 Bioinformatics	<input type="checkbox"/> Yes → <input type="checkbox"/> <input type="checkbox"/> No → <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.2.8 3D molecular modelling	<input type="checkbox"/> Yes → <input type="checkbox"/> <input type="checkbox"/> No → <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.2.9 Protein expression	<input type="checkbox"/> Yes → <input type="checkbox"/> <input type="checkbox"/> No → <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.2.10 Other. Specify: _____ _____	<input type="checkbox"/> Yes → <input type="checkbox"/> <input type="checkbox"/> No → <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No











BIOTECHNOLOGIES	Was this process used by your company during 2002?	If so, specify for what purpose this process was used.			If not, do you intend to use this process during the next three years?
		Research & Development	As part of the production process	As part of a sold product/process	

### 10.3 Engineering and cultures of cells and tissues

10.3.1 Cell/tissue culture	<input type="checkbox"/> Yes $\longrightarrow$ <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.3.2 Tissue engineering	<input type="checkbox"/> Yes $\longrightarrow$ <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.3.3 Hybridization	<input type="checkbox"/> Yes $\longrightarrow$ <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.3.4 Cellular fusion	<input type="checkbox"/> Yes $\longrightarrow$ <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.3.5 Immune/vaccine adjuvant	<input type="checkbox"/> Yes $\longrightarrow$ <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.3.6 Embryo manipulation	<input type="checkbox"/> Yes $\longrightarrow$ <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.3.7 Other. Specify: _____ _____	<input type="checkbox"/> Yes $\longrightarrow$ <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No




BIOTECHNOLOGY	Was this process used by your company during 2002?	If so, specify for what purpose this process was used.			If not, do you intend to use this process during the next three years?
		Research & Development	As part of the production process	As part of a sold product/process	

### 10.4 Bioprocessing-based technologies

10.4.1 Fermentation	<input type="checkbox"/> Yes  <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.4.2 Bioleaching	<input type="checkbox"/> Yes  <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.4.3 Bio-sulphurization	<input type="checkbox"/> Yes  <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.4.4 Bio-filtration	<input type="checkbox"/> Yes  <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.4.5 Bioremediation	<input type="checkbox"/> Yes  <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.4.6 Bio-bleaching	<input type="checkbox"/> Yes  <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.4.7 Bio-pulping	<input type="checkbox"/> Yes  <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.4.8 Bioprocess	<input type="checkbox"/> Yes  <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.4.9 Bioreactors	<input type="checkbox"/> Yes  <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.4.10 Other. Specify: _____ _____	<input type="checkbox"/> Yes  <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No

BIOTECHNOLOGIES	Was this process used by your company during 2002?	If so, specify for what purpose this process was used.			If not, do you intend to use this process during the next three years?
		Research & Development	As part of the production process	As part of a sold product/process	




### 10.5 Sub-cell organisms

10.5.1 Gene therapy	<input type="checkbox"/> Yes  <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.5.2 Viral vectors	<input type="checkbox"/> Yes  <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.5.3 Other. Specify: _____ _____	<input type="checkbox"/> Yes  <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No

If you used another biotechnology that does not appear in any of the categories in this section, please enter it in the following table, with maximum details.

BIOTECHNOLOGIES	Was this process used by your company during 2002?	If so, specify for what purpose this process was used.			If not, do you intend to use this process during the next three years?
		Research & Development	As part of the production process	As part of a sold product/process	

### 10.6 Other biotechnologies

10.6.1 Other. Specify: _____ _____	<input type="checkbox"/> Yes  <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.6.2 Other. Specify: _____ _____	<input type="checkbox"/> Yes  <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.6.3 Other. Specify: _____ _____	<input type="checkbox"/> Yes  <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No



## **PART C – Products/Processes**

**11. Specify in the following tables the number of your company’s biotechnological products/processes in the following fields. (There may be more than one field)**

**11.1** Is your company’s biotechnological field of activity “**Human Medicine**”?

Yes. → Fill in the following table

No. → Skip to question no. 11.2

Area of activity/Industry	Number of products	Distribution of Number of Products by Stage of Development					
		R&D	Pre-clinical trials	Clinical trials	Submitted for approval (process of registration)	Pre-marketing approval	Marketing and sales
1. Diagnostics							
2. Therapeutics							
3. Gene Therapy							
4. Pharmaceuticals							
5. Other: _____							

**11.2** Is your company’s biotechnological field of activity “**Bioinformatics**”?

Yes. → Fill in the following table

No. → Skip to question no. 11.3

Areas of activity/Industry	Number of products	Distribution of Number of Products by Stage of Development					
		R&D	Pre-clinical trials	Clinical trials	Submitted for approval (process of registration)	Pre-marketing approval	Marketing and sales
1. Genomic and Molecular Modelling							
2. Functional Genomics							
3. Proteomics							
4. Other: _____							

**11.3** Is your company's biotechnological field of activity "Agricultural Biotechnology"?

Yes. → Fill in the following table

No. → Skip to question no. 11.4

Areas of activity/Industry	Number of products	Distribution of Number of Products by Stage of Development					
		R&D	Pre-clinical trials	Clinical trials	Submitted for approval (process of registration)	Pre-marketing approval	Marketing and sales
1. Plants/Crops							
2. Animal Biotechnology							
3. Fertilization, Pest Control, etc.							
4. Agricultural Products not for Human Consumption							
5. Other: _____							

**11.4** Is your company's biotechnological field of activity "The Food Production Process"?

Yes. → Fill in the following table

No. → Skip to question no. 11.5

Areas of activity/Industry	Number of products	Distribution of Number of Products by Stage of Development					
		R&D	Pre-clinical trials	Clinical trials	Submitted for approval (process of registration)	Pre-marketing approval	Marketing and sales
1. Wine production							
2. Baking							
3. Dairy products							
4. Unsaturated fats							
5. Micro/Nano encapsulation of nutraceuticals							
6. Pigment production							
7. Other: _____							

**11.5** Is your company's biotechnological field of activity "**Marine Biotechnology**"?

Yes. → Fill in the following table

No. → Skip to question no. 11.6

Areas of activity/Industry	Number of products	Distribution of Number of Products by Stage of Development					
		R&D	Pre-clinical trials	Clinical trials	Submitted for approval (process of registration)	Pre-marketing approval	Marketing and sales
1.Fish Health							
2. Bioextraction							
3. Other: _____							

**11.6** Is your company's biotechnological field of activity "**Mining and quarrying, energy, petroleum-oil, chemicals**"?

Yes. → Fill out the following table

No. → Skip to question no. 11.7

Areas of activity/Industry	Number of products	Distribution of Number of Products by Stage of Development					
		R&D	Pre-clinical trials	Clinical trials	Submitted for approval (process of registration)	Pre-marketing approval	Marketing and sales
1.Microbiologically enhanced petroleum/mineral recovery							
2. Industrial biological production process							
3. Other: _____							

**11.7** Is your company's biotechnological field of activity "**Afforestation**"?

Yes. → Fill in the following table

No. → Skip to question no. 11.8

Areas of activity/Industry	Number of products	Distribution of Number of Products by Stage of Development					
		R&D	Pre-clinical trials	Clinical trials	Submitted for approval (process of registration)	Pre-marketing approval	Marketing and sales
1.Silviculture							
2. Industrial processes							
3. Other: _____							

**11.8** Is your company's biotechnological field of activity "**The Environment**"?

Yes. → Fill in the following table

No. → Skip to question no. 11.9

Areas of activity/Industry	Number of products	Distribution of Number of Products by Stage of Development					
		R&D	Pre-clinical trials	Clinical trials	Submitted for approval (process of registration)	Pre-marketing approval	Marketing and sales
1. Biofiltration							
2. Biomediation and phytoremediation							
3. Diagnosis							
4. Synthetic made-to-order products– chemical or biological							
5. Other: _____							

**11.9** Is your company's biotechnological field of activity "**Cosmetics**"?

Yes. → Fill in the following table

No. → Skip to question No. 11.10

Areas of activity/Industry	Number of products	Distribution of Number of Products by Stage of Development					
		R&D	Pre-clinical trials	Clinical trials	Submitted for approval (process of registration)	Pre-marketing approval	Marketing and sales
1. Micro/Nano encapsulation							
2. Pigment production							
3. Other: _____							

**11.10** Does your company engage in another biotechnological field (not mentioned in the tables above)?

Yes. → Fill in the following table

No. → Skip to question no. 12 (Part D)

Areas of activity/Industry	Number of products	Distribution of Number of Products by Stage of Development					
		R&D	Pre-clinical trials	Clinical trials	Submitted for approval (process of registration)	Pre-marketing approval	Marketing and sales
1.							
2.							
3.							

**PART D – Sources of Knowledge**

**12. What sources of knowledge served your company?** Rank each one of the following sources of knowledge according to their order of importance. *Use the following scale, with '1' indicating the lowest level of importance, and '5' the highest level.*

Source of Knowledge	Importance					Irrelevant
	1	2	3	4	5	
1. Own R&D within the company, and/or parent/subsidiary company						
2. Patent purchases						
In the country:						
From abroad:						
3. Academic research institutes						
In the country:						
From abroad:						
4. Private contacts/unofficial tacit knowledge						
In the country:						
From abroad:						
5. Professional conferences						
6. Professional associations						
7. Open scientific publication/professional literature						
8. Expiry of patent						
9. Acquisition of knowledge holder/establishment of company around an inventor						
10. Use of databases for a fee/free of charge (including public databases)						
11. Cooperation with other companies						
12. Other. Specify: _____						

**PART E – Activities in the Field of Biotechnology During 2002**

**13. What were the total company sales from biotechnological activities in 2002?** (circle the type of currency)

**Total sales:** .....  \$ / NIS

**Of those, sales to local market:** .....  \$ / NIS

**Export sales:\*** .....  \$ / NIS

\* If there were no export sales, skip to question no. 16.

**14. List the exports of biotechnological products by main export continents.**

	Product	Main Export Continent
14.1		
14.2		
14.3		
14.4		
14.5		
14.6		
14.7		
14.8		

**15. How does your company market its biotechnological products abroad?** (More than one answer may be appropriate)

- Directly from Israel, through agents
- Through agents of the company abroad
- Through subsidiaries abroad
- Through cooperation with companies in the target markets
- Others. Please specify: \_\_\_\_\_

**16. Where does your company's production in the field of biotechnology take place?**

- Locally
- Abroad (including production in subsidiaries)
- There is no production → Skip to question No. 18

**17. What percentage of your company's total biotechnological production takes place locally?**

.....

18. Specify in the following table the number of workers employed by your company in the field of biotechnology during December, 2002. (Note the distribution according to level of education, job category and sex.)

**Employees in the Field of Biotechnology (General)**

Level of education		Number of employees according to job category								Total
		R & D		Production		Marketing		Administration		
		Men	Women	Men	Women	Men	Women	Men	Women	
18.1	Ph.D and above									
18.2	Engineers									
18.3	First degree, Second degree									
18.4	Practical engineers, Technicians									
18.5	Others									
18.6	Total									

19. How many unfilled positions in the field of biotechnology are there in your company today?

.....

20. What was the labour cost of employees in the field of biotechnology in 2002?.....

21. Was any R&D in the field of biotechnology performed by your company in 2002?

Yes. → Continue to question No. 22

No. → Skip to question No. 25

22. Where was your company's R&D performed?

Locally

Abroad (including R&D in subsidiaries)

23. What percentage of R&D was performed locally, of the total biotechnological R&D in your company? .....

24. What was the total expenditure on biotechnological R&D in 2002? (Please include labour costs)

..... \$/NIS

**25. Specify in the following table the external funding received for activities in the field of biotechnology during 2002.**

		<b>Amount</b>	(Specify type of currency)
<b>25.1</b>	Grant from the Chief Scientist of the Ministry of Industry and Trade		\$ / NIS
<b>25.2</b>	International foundations (Bird, Israel-Singapore, etc.)		\$ / NIS
<b>25.3</b>	Capital venture funds		\$ / NIS
<b>25.4</b>	Strategic investors		\$ / NIS
<b>25.5</b>	Private fundraisers		\$ / NIS
<b>25.6</b>	Raising capital from the public (issuing stock to the public) locally and abroad		\$ / NIS
<b>25.7</b>	Fundraising from a government source. Specify which: _____		\$ / NIS
<b>25.8</b>	Other sources. Specify: _____		\$ / NIS

**26. What were the total investments in fixed assets in the field of biotechnology in 2002?**

.....  \$ / NIS

**Of that: buildings, structures and engineering work**

**(not including land value).....**  \$ / NIS

**machines, installations and equipment .....**  \$ / NIS

**27. How many registered patents in the field of biotechnology does the company hold in the field of biotechnology? (from the day of its establishment)**

.....

**28. In how many countries have these patents been approved? .....**

**29. How many (different) applications patents have been submitted but not yet approved?....**



## **PART F – General**

**30. Does your company engage in additional fields other than biotechnology?**

Yes. → Continue to question No. 31

No. → Skip to question No. 37

**31. How many employees did the company have in December, 2002? .....**

**32. How many of those employed by the company in December, 2002 were women?**

**33. How many openings does your company have today? .....**

**34. What was the labour cost of employees in your company in 2002 ?**  \$ / NIS

**35. What was the company's total income in 2002? .....**  \$ / NIS

**Of that: Sales to local market .....**  \$ / NIS

**Sales abroad .....**  \$ / NIS

**36. What were the total investments in fixed assets in 2002? .....**  \$ / NIS

**Of those: buildings, structures and engineering work**

**(not including land value) .....**  \$ / NIS

**machines, installations and equipment: .....**  \$ / NIS

**37. Comments**

*We would be pleased to receive any comments you have regarding the structure of the questionnaire, terminology used, or any other issue you feel is relevant.*

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**38. Details of person filling out the questionnaire:**

Name: .....

Position: .....

Telephone: .....

Additional  
Telephone: .....

Mobile  
Telephone: .....

Fax: .....

E-mail address: .....

**Thank you for your kind cooperation**

For explanations and clarifications, please contact:  
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