

4.1 NYS Biotechnology Manufacturers

As previously mentioned, there is a considerable definitional question with regard to biotechnological manufacturing. Strictly speaking, biotechnology manufacturing would appear to be limited to SIC 2835 and 2836 (covering the manufacturing of biological materials). However, there are several firms in the biotechnology manufacturing field that manufacture other chemicals (e.g., in SIC 2899) or that produce equipment or instrumentation for handling biotechnological materials (e.g., in SIC 3821) with or without manufacturing the biologicals themselves. The number of biotech manufacturers in New York State then, depends on whose definition or enumeration you use (and, of course, on the date of your survey).

Based on the data supplied by the computerized Corporate Technology Database and several published industrial directories, there are 58 firms involved in the biotechnology industry in New York State. About three dozen of these are involved in manufacturing biologicals. The remainder of the firms are involved in biotechnology instrumentation manufacture or biotechnology services. A list of all firms by ownership and ZIP Code appears as Appendix B.

TYPES OF BIOTECH FIRMS IN NYS

Listed under SIC 2835, 2836 and/or 2899 only	18
<u>Listed under above SIC classes plus other classes</u>	<u>20</u>
Subtotal: listed in biological manufacturing	38
Listed in other SICs but not in above classes	16
<u>SIC not specified</u>	<u>4</u>
<u>TOTAL NYS Biotechnology Firms</u>	<u>58</u>

As far as the U.S. Bureau of the Census is concerned, much of New York State's biotech industry appears to be hidden away under other industry categories. According to the recently published and usually reliable County *Business Patterns 1990 - New York*, there were 18 establishments in the primary classifications for this business in the entire state in 1990.

NYS BIOLOGICALS MANUFACTURERS (1990 Data)

SIC	Definition	Employees as of 3/31	Annual Payroll	Total Establishments	Estab. with 100+ Employees
2835	Diagnostic substances	1,395	\$42,617M	12	5
2836	Biologicals, except diagnost.	369	10,408	6	2
	TOTAL	1,764	\$53,025M	18	7