

Environmental expenses and investments

ENVIRONMENTAL EXPENSES

In thousands of euros	2023	2022	2021
Waste management	21,290.00	17,544.51	13,236.70
Water cycle	6,660.11	7,893.98	6,975.50
Reducing atmospheric emissions and energy	84.00	57.69	62.90
Others	0.00	290.63	367.20
Total	28,034.11	25,786.81	20,642.30

ENVIRONMENTAL EXPENSES - BIOTEST

In thousands of euros	2023	2022
Water cycle	1,594.00	0.00
Reducing atmospheric emissions and energy	0.00	795.30
Total	1,594.00	795.30

ENVIRONMENTAL INVESTMENTS

In thousands of euros	2023	2022	2021
Waste management	427.11	2,275.40	433.60
Water cycle	518.46	1,263.40	2,848.70
Reducing atmospheric emissions and energy	2,575.37	1,502.60	1,580.60
Others	1,253.39	3,331.00	2,500.30
Total	4,774.33	8,372.40	7,363.20

ENVIRONMENTAL INVESTMENTS - BIOTEST

In thousands of euros	2023	2022
Water cycle	0.00	0.00
Reducing atmospheric emissions and energy	1,000.00	0.00
Total	1,000.00	0.00

Emissions

EMISSIONS

%	2023	Spain	U.S.	RoW	2022	Spain	U.S.	RoW	2021	Spain	U.S.	RoW
Scope 1	106,459	31.5%	60.3%	8.2%	95,242	30.4%	61.9%	7.7%	148,249	21.9%	71.2%	6.9%
Scope 2 (Location-based)	136,237	11.3%	80.6%	8.1%	105,068	9.3%	83.5%	7.3%	150,277	4.5%	84.7%	10.8%
Scope 2 (Market-based)	98,106				106,545				126,228			
Scope 3	947,463	22.8%	53.0%	16.7%	1,416,451	16.9%	64.4%	18.8%	1,323,454	24.2%	71.2%	4.6%

EMISSIONS - BIOTEST

%	2023	Germany	Spain	U.S.	RoW	2022	Germany	Spain	U.S.	RoW
Scope 1	18,300	94.7%	0.0%	0.0%	5.3%	12,283	99.4%	0.0%	0.0%	0.6%
Scope 2 (Market-based)	15,464	90.3%	0.0%	0.0%	9.7%	6,523	94.8%	3.1%	0.0%	2.1%
Scope 3	-	-	-	-	-	-	-	-	-	-

TOTAL EMISSIONS BY ORIGIN

Gross T CO ₂ e	2023	2022	2021
Scope 1	106,459	95,242	148,129
Natural gas	93,099	82,536	86,403
Fugitive emissions	10,131	10,749	59,406
Other fuel (gasoline, diesel and propane)	3,228	1,957	2,320
Scope 2 Location-based	136,237	105,068	150,276
Scope 2 Market-based	98,106	106,546	126,228
Electricity	134,357	103,322	147,975
Electricity (market-based)	96,226	104,800	123,927
District heating	1,880	1,746	2,301
Scope 3	947,463	1,416,451	1,323,454
Purchased goods & services	546,309	765,443	697,287
Capital goods	86,084	198,034	237,955
Fuel & energy related activities	54,536	56,971	52,666
Upstream transportation	156,333	216,062	172,501
Waste management	10,814	7,021	7,373
Business travel	20,432	22,780	10,062
Employee commuting	37,810	40,637	35,604
Upstream leased assets	16,119	21,860	14,347
Downstream transportation	Not relevant	Not relevant	Not relevant
Processing of sold products	Not relevant	Not relevant	Not relevant
Use of sold products	3,544	2,936	2,751
End-of-life treatment of sold products	6,278	4,065	2,581
Downstream leased assets	Not relevant	Not relevant	Not relevant
Franchises	Not relevant	Not relevant	Not relevant
Investments	9,205	80,643	90,327
Total including Location-based	1,190,159	1,616,761	1,621,858
Total including Market-based	1,152,027	1,618,238	1,597,810

TOTAL EMISSIONS BY ORIGIN - BIOTEST

Gross T CO ₂ e	2023	2022
Scope 1	18,300	12,283
Natural gas	16,345	11,424
Fugitive emissions	1,638	650
Other fuel (gasoline, diesel and propane)	317	209
Scope 2	15,464	6,523
Electricity (market-based)	15,464	6,523
District heating	-	-
Scope 3	-	-
Total	33,765	18,806

Refrigerant gas leaks

Absolute value (T)	2023	2022	2021
HCFC	0.44	0.23	0.63
HFC	3.08	4.06	15.70
Others	0.025	0.02	1.24

Refrigerant gas leaks - Biotest

Absolute value (T)	2023
HCFC	0
HFC	0.73
Others*	1.63

*It includes natural refrigerants: R744 (CO₂) and R290 (Propane)

OTHER EMISSIONS			
Absolute value (T)	2023	2022	2021
NO _x	71.5	59.31	74.14
CO	62.7	63.65	66.04
SO ₂	0.57	0.63	0.58

NO_x EMISSIONS INTENSITY			
T/NO _x /million euros	2023	2022	2021
Total Grifols	0.01	0.01	0.02

CO EMISSIONS INTENSITY			
T/CO/million euros	2023	2022	2021
Total Grifols	0.01	0.01	0.01

SO₂ EMISSIONS INTENSITY			
T/SO ₂ /million euros	2023	2022	2021
Total Grifols	0.00	0.00	0.00

CO₂e EMISSIONS INTENSITY			
T/CO ₂ e/million euros	2023	2022	2021
Total Grifols (Location-based)	195.46	283.51	328.77
Total Grifols (Market-based)	189.20	283.77	323.89

SCOPE 1+2 CO₂e EMISSIONS INTENSITY			
T/CO ₂ e/million euros	2023	2022	2021
Total Grifols (Location-based)	39.86	35.13	60.49
Total Grifols (Market-based)	33.60	35.38	55.62

CO₂e EMISSIONS RELATED TO TRANSPORTATION*			
	2023	2022	2021
CO ₂ transportation emissions (t CO ₂)	214,575	279,478	218,167
CO ₂ transportation emissions / sales (t CO ₂ / M €)	37.63	49.01	44.22

*Emissions from container transport, employee commuting and business travel have been considered.

Natural Gas

BY BUSINESS UNIT			
kWh	2023	2022	2021
Biopharma+ Plasma Procurement	462,235,995	407,296,433	429,749,122
Diagnostic	23,432,351	23,583,127	24,059,290
Others	22,792,328	21,181,198	20,378,356
Bio Supplies	363,976	2,989	0
Commercial affiliates	112,306	88,456	95,523
Total	508,936,955	452,152,203	474,282,291

BY BUSINESS UNIT - BIOTEST		
kWh	2023	2022
Plasma Procurement	3,751,543	456,548
Biopharma	77,568,277	50,916,230
Total	81,319,820	51,372,778

BY REGION			
kWh	2023	2022	2021
Spain*	176,029,667	143,376,530	168,964,411
U.S.	306,696,892	289,704,028	280,605,846
RoW	26,210,396	19,071,645	24,712,034
Total	508,936,955	452,152,203	474,282,291

*The consumption of natural gas from the cogeneration plant is included in Spain's overall totals

BY COUNTRY - BIOTEST		
kWh	2023	2022
Germany	78,954,414	51,237,535
Spain	0	0
U.S.	0	0
Rest of the World	3,471,836	60,705
Total	82,426,250	51,298,240

VALUE RELATIVE TO SALES			
kWh/million of euros	2023	2022	2021
Biopharma + Plasma Procurement	91,438	87,701	112,648
Diagnostic	34,960	35,131	30,881
Others	112,029	84,669	70,094
Bio Supplies	2,275	20	0
Commercial affiliates	-	-	-

VALUE RELATIVE TO SALES - BIOTEST		
kWh/million of euros	2023	2022
Plasma Procurement	91,114	13,602
Biopharma	176,470	166,198
Total	267,584	166,198

VALUE RELATIVE TO PRODUCTION			
kWh/Production index	2023	2022	2021
Biopharma + Plasma Procurement*	8.8	9.2	10.0
Diagnostic**	34,960	35,131	30,881
Others**	112,029	84,669	70,094
Bio Supplies**	2,275	20	-
Commercial affiliates	-	-	-
Total	83,585	79,287	96,143

Production index: * Liters of plasma: fractionated + equivalent / ** Sales

VALUE RELATIVE TO PRODUCTION - BIOTEST		
kWh/Production index	2023	2022
Plasma Procurement*	6.5	1.0
Biopharma**	42	154

Production index: * Liters of plasma: fractionated + equivalent / ** Sales

Electricity

BY BUSINESS UNIT			
kWh	2023	2022	2021
Biopharma+Plasma procurement	395,449,664	399,690,586	398,606,734
Diagnostic	27,076,568	28,799,845	28,748,709
Bio Supplies	2,560,933	545,997	0
Others	17,130,922	17,863,379	17,316,292
Commercial affiliates	3,121,378	3,776,145	3,886,157
Total	445,339,465	450,675,952	448,557,892

BY BUSINESS UNIT - BIOTEST		
kWh	2023	2022
Plasma Procurement	3,206,163	2,074,670
Biopharma	31,391,544	21,388,628
Total	34,597,707	23,463,298
Others	0	400
Total	34,597,707	23,463,698

BY REGION			
kWh	2023	2022	2021
Spain	94,846,417	92,681,455	93,187,332
U.S.	312,804,351	321,130,633	311,469,242
RoW	37,688,697	36,863,865	43,901,318
Total	445,339,465	450,675,952	448,557,892

BY REGION - BIOTEST		
kWh	2023	2022
Germany	32,250,734	22,279,317
Spain	0	5,186
U.S.	0	0
RoW	2,301,682	1,157,612
Total	34,552,416	23,442,115

VALUE RELATIVE TO SALES			
kWh/million euros	2023	2022	2021
Biopharma+Plasma Procurement	78,226	86,063	104,485
Diagnostic	40,396	42,902	36,900
Bio Supplies	16,010	3,738	0
Others	84,202	71,406	59,562
Commercial affiliates	-	-	-
Total	73,140	79,028	90,928

VALUE RELATIVE TO SALES - BIOTEST		
kWh/millon of euros	2023	2022
Plasma Procurement	77,499	61,812
Biopharma	70,156	69,816
Others	0	97
Total	147,655	131,725

VALUE RELATIVE TO PRODUCTION

kWh/production index	2023	2022	2021
Biopharma + Plasma Procurement*	7.5	9.0	9.3
Diagnostic**	40,396	42,902	36,900
Bio Supplies**	16,010	3,738	0
Others**	84,202	71,406	59,562
Commercial affiliates	-	-	-

Production index: * Liters of plasma: fractionated + equivalent / ** Sales

VALUE RELATIVE TO PRODUCTION - BIOTEST

kWh/Production index	2023	2022
Plasma Procurement*	5.6	6.3
Biopharma**	17	19

Production index: * Liters of plasma: fractionated + equivalent / ** Sales

RENEWABLE ELECTRIC ENERGY

	PPA (Power Purchase Agreements)	Guarantees of origin	Own photovoltaic plants	Total
Spain	20,273,875	-	453,471	20,727,346
EE.UU.	-	119,999,113	-	119,999,113
Germany	-	340,000	-	398,463
Ireland	-	11,529,794	-	11,529,794
Total	20,273,875	131,868,907	453,471	152,596,253

Water cycle

BY BUSINESS UNIT

m ³	2023	2022	2021
Biopharma+Plasma Procurement	3,373,254	2,733,390	2,971,732
Diagnostic	68,790	104,641	103,540
Bio Supplies	12,279	3,363	0
Others	216,983	188,082	203,764
Commercial affiliates	5,502	4,878	4,689
Total	3,676,809	3,034,354	3,283,725

BY BUSINESS UNIT - BIOTEST

m ³	2023	2022
Plasma Procurement	15,549	6,610
Biopharma	474,819	333,221
Total	490,368	339,831
Others	-	400
Total	490,368	340,231

BY REGION			
m ³	2023	2022	2021
Spain	961,208	884,304	866,181
U.S.	2,456,863	2,039,650	2,249,826
RoW	258,738	113,575	167,718
Total	3,676,809	3,037,529	3,283,725

BY REGION - BIOTEST			
m ³	2023	2022	
Germany		476,956	333,317
Spain		0	0
U.S.		0	0
RoW		12,646	6,447
Total		489,602	339,764

VALUE RELATIVE TO SALES			
m ³ /million euros	2023	2022	2021
Biopharma+Plasma Procurement	667	589	779
Diagnostic	103	156	133
Bio Supplies	77	23	0
Others	1,067	752	701
Commercial affiliates	-	-	-
Total	604	532	666

VALUE RELATIVE TO SALES - BIOTEST			
m ³ /million euros	2023	2022	
Plasma Procurement		368	197
Biopharma		1,065	1,088
Others		0	97
Total		1,433	1,382

VALUE RELATIVE TO PRODUCTION			
m ³ /production index	2023	2022	2021
Biopharma+Plasma Procurement*	0.064	0.062	0.069
Diagnostic**	103	156	133
Bio Supplies**	77	23	0
Others**	1067	752	701
Commercial affiliates	-	-	-

Production index: * Liters of plasma: fractionated + equivalent / ** Sales

VALUE RELATIVE TO PRODUCTION - BIOTEST			
m ³ /production index	2023	2022	
Plasma Procurement*		368	0
Biopharma**		1,065	1

Production index: * Liters of plasma: fractionated + equivalent / ** Sales

BY SOURCE AND WATER STRESSED REGIONS - 2023

Water consumption (m ³)	Total	By source		% of consumption in water-stressed regions*
		Groundwater	Third party water	
Biopharma + Plasma Procurement	3,373,255	262,471	3,110,784	19.1
Diagnostic	68,790	0	68,790	17.8
Bio Supplies	12,279	0	12,279	54.8
Others	216,983	130,386	86,597	34.9
Commercial affiliates	5,502	0	5,502	28.8
Total	3,676,809	392,857	3,283,952	20.1

BY SOURCE AND WATER STRESSED REGIONS - 2022

Water consumption (m ³)	Total	By source		% of consumption in water-stressed regions*
		Groundwater	Third party water	
Biopharma + Plasma Procurement	2,733,390	234,824	2,498,566	19.3
Diagnostic	104,641	0	104,641	24.7
Bio Supplies	3,363	0	3,363	100.0
Others	188,082	120,943	67,139	26.4
Commercial affiliates	4,878	0	4,878	41.0
Total	3,034,354	355,767	2,678,588	20.0

BY SOURCE AND WATER STRESSED REGIONS - 2021

Water consumption (m ³)	Total	By source		% of consumption in water-stressed regions*
		Groundwater	Third party water	
Biopharma + Plasma Procurement	2,971,732	217,785	2,753,947	18.9
Diagnostic	103,540	0	103,540	71.5
Bio Supplies	0	0	0	0.0
Others	203,764	115,989	87,775	0.2
Commercial affiliates	4,689	0	4,689	5.8
Total	3,283,725	333,774	2,949,951	19.4

BY SOURCE AND WATER STRESSED REGIONS - BIOTEST - 2023

Water consumption (m ³)	Total	By source		% of consumption in water-stressed regions*
		Groundwater	Third party water	
Plasma Procurement	15,896	0	15,896	0.0%
Biopharma	473,706	0	473,706	0.0%
Others	0	0	0	0.0%
Total	489,602	0	489,602	0.0%

BY SOURCE AND WATER STRESSED REGIONS - BIOTEST - 2022

Water consumption (m ³)	Total	By source		% of consumption in water-stressed regions*
		Groundwater	Third party water	
Plasma Procurement	15,896	0	15,896	0.0%
Biopharma	473,706	0	473,706	0.0%
Others	0	0	0	0.0%
Total	489,602	0	489,602	0.0%

*Areas with high and extremely high risk according to World Resources Institute

WASTEWATER DISCHARGE BY SOURCE AND STRESS AREAS - 2023

Water discharged (m ³)	By destination		By treatment		By region
	Total (public sewer system)	No internal treatment*	Biological systems prior to discharge**	% of discharged on water-stressed regions***	
Biopharma+Plasma Procurement	2,228,746	1,379,555	849,191		17.5
Diagnostic	37,799	37,799	0		32.3
Bio Supplies	12,277	12,277	0		54.8
Others	144,005	144,005	0		27.8
Commercial affiliates	4,696	4,696	0		43.4
Total	2,427,523	1,578,332	849,191		18.6

* Wastewater discharged into the sewer system with subsequent treatment of municipal services

** Internal pretreatment processes

*** Areas with high and extremely high risk according to World Resources Institute"

WASTEWATER DISCHARGE BY SOURCE AND STRESS AREAS - 2022

Water discharged (m ³)	By destination		By treatment		By region
	Total (public sewer system)	No internal treatment*	Biological systems prior to discharge**	% of discharged on water-stressed regions***	
Biopharma+Plasma Procurement	2,081,495	1,207,603	873,892		16.6
Diagnostic	90,680	90,680	0		24.4
Bio Supplies	3,363	3,363	0		100.0
Others	152,252	152,252	0		6.2
Commercial affiliates	4,875	4,875	0		41.0
Total	2,332,665	1,458,773	873,892		17.8

* Wastewater discharged into the sewer system with subsequent treatment of municipal services

** Internal pretreatment processes

*** Areas with high and extremely high risk according to World Resources Institute"

WASTEWATER DISCHARGE BY SOURCE AND STRESS AREAS - 2021

Water discharged (m ³)	By destination		By treatment		By region
	Total (public sewer system)	No internal treatment*	Biological systems prior to discharge**	% of discharged on water-stressed regions***	
Biopharma+Plasma Procurement	2,200,395	1,313,460	886,935		23.3
Diagnostic	88,043	88,043	0		67.9
Bio Supplies	0	0	0		0.0
Others	141,364	141,364	0		0.3
Commercial affiliates	4,687	4,687	0		6.0
Total	2,434,489	1,547,554	886,935		23.6

* Wastewater discharged into the sewer system with subsequent treatment of municipal services

** Internal pretreatment processes

*** Areas with high and extremely high risk according to World Resources Institute"

WASTEWATER DISCHARGE BY SOURCE AND STRESS AREAS - BIOTEST - 2023

Water discharged (m ³)	By destination		By treatment		By region
	Total (public sewer system)	No internal treatment*	Biological systems prior to discharge**	% of discharged on water-stressed regions***	
Plasma Procurement	15,896	15,896	0		0.0%
Biopharma	430,754	430,754	0		0.0%
Others	0	0	0		0.0%
Total	446,650	446,650	0		0.0%

* Wastewater discharged into the sewer system with subsequent treatment of municipal services

** Internal pretreatment processes

*** Areas with high and extremely high risk according to World Resources Institute

WASTEWATER DISCHARGE BY SOURCE AND STRESS AREAS - BIOTEST - 2022

Water discharged (m ³)	By destination		By treatment		By region
	Total (public sewer system)	No internal treatment*	Biological systems prior to discharge**	% of discharged on water-stressed regions***	
Plasma Procurement	15,896	15,896	0		0.0%
Biopharma	430,754	430,754	0		0.0%
Others	0	0	0		0.0%
Total	446,650	446,650	0		0.0%

* Wastewater discharged into the sewer system with subsequent treatment of municipal services

** Internal pretreatment processes

*** Areas with high and extremely high risk according to World Resources Institute

SUSPENDED SOLIDS DISCHARGED

	2023	2022	2021
Total (T)	326	357	428
Relative to sales (T/million euros)	0.053	0.06	0.09

COD DISCHARGED

	2023	2022	2021
Total (T)	2,168	2,525	2,731
Relative to sales (T/million euros)	0.36	0.44	0.55

Energy consumption and cogeneration plant

TOTAL ENERGY CONSUMPTION

kWh	2023	2022	2021
Biopharma+Plasma Procurement	831,629,897	794,588,340	802,753,813
Diagnostic	50,553,569	52,435,934	53,238,663
Bio Supplies	2,925,893	549,477	0
Others	39,970,526	39,044,577	37,440,087
Commercial affiliates	3,679,067	3,871,545	4,015,725
Total	928,758,952	890,489,873	897,448,288

TOTAL ENERGY CONSUMPTION - BIOTEST

kWh	2023	2022
Plasma Procurement	6,957,706	2,572,197
Biopharma	109,255,786	72,897,207
Others	0	0
Total	116,213,492	75,469,404

CONSUMPTION VALUE RELATIVE TO SALES

kWh	2023	2022	2021
Biopharma + Plasma Procurement	164,510	171,095	210,421
Diagnostic	75,423	78,112	68,333
Bio Supplies	18,292	3,762	0
Others	196,463	156,075	128,780
Commercial affiliates	-	-	-
Total	152,534	156,152	181,923

CONSUMPTION VALUE RELATIVE TO SALES

kWh/million euros	2023	2022
Plasma Procurement	168,628	76,635
Biopharma	247,290	237,947
Others	0	0
Total	415,918	314,582

COGENERATION PLANT

kWh	2023	2022	2021
Natural gas consumed (kwh)	110,159,693	75,119,463	114,018,162
Total electricity generate (kwh)	40,656,130	27,618,042	41,712,040
Useful heat recoverd (kwh)	30,387,110	20,623,619	30,857,670

COGENERATION PLANT - BIOTEST

kWh	2023	2022
Natural gas consumed (kwh)	17,440,542	13,199,091
Total electricity generate (kwh)	5,958,345	4,770,118
Useful heat recoverd (kwh)	9,174,840	6,759,322

Emissions savings have been calculated following the basis of the European Union Emission Trading Scheme EU ETS.

Waste management

GENERATED WASTE BY TYPE AND DISPOSAL METHOD ABSOLUTE VALUE					
T		Treatment	2023	2022	2021
Waste diverted from disposal	Hazardous waste	Energy recovered and by-products	722	673	579
		Reused	2	70	65
		Recycled	1,317	1,100	2,509
	Non-hazardous waste	Energy recovered and by-products	6,721	5,551	5,587
		Reused	256	231	258
		Recycled	12,614	12,930	13,376
Waste directed to disposal	Hazardous waste	Composted	3,847	2195	1,882
		Incineration (with energy recovery)	470	336	244
		Incineration (withou energy recovery)	50	609	19
		Landfill disposal	0	0	0
	Non-hazardous waste	Other disposal treatments	6,586	7053	5,416
		Incineration (with energy recovery)	11	0	12
		Incineration (withou energy recovery)	21	16	18
		Landfill disposal	17,674	13,097	14,129
		Other disposal treatments	827	1,091	855
Total			51,119	44,954	44,949

GENERATED WASTE BY TYPE AND DISPOSAL METHOD ABSOLUTE VALUE - BIOTEST				
T		Treatment	2023	2022
Waste diverted from disposal	Hazardous waste	Energy recovered and by-products	0	84
		Reused	0	0
		Recycled	0	0
	Non-hazardous waste	Energy recovered and by-products	0	36
		Reused	0	0
		Recycled	0	1
Waste directed to disposal	Hazardous waste	Composted	0	0
		Incineration (with energy recovery)	399	17
		Incineration (withou energy recovery)	9,340	19
		Landfill disposal	28	1
	Non-hazardous waste	Other disposal treatments	0,0	5,397
		Incineration (with energy recovery)	1,269	657
		Incineration (withou energy recovery)	443	99
		Landfill disposal	0	46
		Other disposal treatments	0	251
Total			11,554	6,608

GENERATED WASTE BY TYPE AND DISPOSAL METHOD RELATIVE VALUE

T/million euros	Treatment	2023	2022	2021	
Waste diverted from disposal	Hazardous waste	Energy recovered and by-products	0.12	0.12	0.12
		Reused	0.00	0.01	0.01
		Recycled	0.22	0.02	0.51
	Non-hazardous waste	Energy recovered and by-products	1.10	0.97	1.13
		Reused	0.04	0.04	0.05
		Recycled	2.07	2.27	2.71
Waste directed to disposal	Hazardous waste	Composted	0.63	0.39	0.38
		Incineration (with energy recovery)	0.08	0.06	0.05
		Incineration (withou energy recovery)	0.01	0.11	0.00
		Landfill disposal	0.00	0.00	0.00
	Non-hazardous waste	Other disposal treatments	1.08	1.24	1.10
		Incineration (with energy recovery)	0.00	0.00	0.00
		Incineration (withou energy recovery)	0.00	0.00	0.00
		Landfill disposal	2.90	2.30	2.86
		Other disposal treatments	0.14	0.19	0.17
Total		8.40	7.88	9.11	

GENERATED WASTE BY TYPE AND DISPOSAL METHOD RELATIVE VALUE - BIOTEST

T/million euros	Treatment	2023	2022	
Waste diverted from disposal	Hazardous waste	Energy recovered and by-products	0.00	0.12
		Reused	0.00	0.01
		Recycled	0.00	0.19
	Non-hazardous waste	Energy recovered and by-products	0.00	0.97
		Reused	0.00	0.04
		Recycled	0.00	2.27
Waste directed to disposal	Hazardous waste	Composted	0.00	0.39
		Incineration (with energy recovery)	0.01	0.06
		Incineration (withou energy recovery)	0.29	0.11
		Landfill disposal	0.00	0.00
	Non-hazardous waste	Other disposal treatments	0.00	1.24
		Incineration (with energy recovery)	0.04	0.00
		Incineration (withou energy recovery)	0.01	0.00
		Landfill disposal	0.00	2.30
		Other disposal treatments	0.00	0.19
Total		0.36	7.89	

ABSOLUTE VALUE BY BUSINESS UNIT

T	2023	2022	2021
Biopharma+Plasma Procurement	47,817	42,077	41,868
Diagnostic	1,322	1,143	1,035
Bio Supplies	358	99	-
Others	1,400	1,305	1,720
Commercial affiliates	222	330	327
Total	51,119	44,954	44,949

ABSOLUTE VALUE BY BUSINESS UNIT - BIOTEST

T	2023	2022
Plasma Procurement	586	181
Biopharma	10,823	6,325
Total	11,409	6,506

ABSOLUTE VALUE BY REGION

m ³	2023	2022	2021
Spain	5,759	5,287	5,702
U.S.	42,757	37,784	37,577
RoW	2,603	1,883	1,669
Total	51,119	44,954	44,949

ABSOLUTE VALUE BY REGION - BIOTEST

m ³	2023	2022
Germany	10,936	6,385
Spain	0	0
U.S.	0	0
Rest of the world	473	222
Total	11,409	6,607

Main materials consumed

MAIN MATERIALS CONSUMED - BIOPHARMA

Absolute value (T)	2023	2022	2021
Sorbitol	1,400	1,164	1,163
Ethanol	2,652	3,225	2,730
Polyethylene glycol	2,318	1,720	1,749
Glass packaging	3,441	2,881	2,750
Total	9,811	8,990	8,392

MAIN MATERIALS CONSUMED - BIOPHARMA - BIOTEST

Absolute value (T)	2023	2022
Sorbitol	0.00	0.00
Ethanol	2,506	1,462
Polyethylene glycol	0.00	0.00
Glass packaging	284	218
Total	2,790	1,680

MAIN MATERIALS CONSUMED - DIAGNOSTIC

Absolute value (T)	2023	2022	2021
Circuit boards (units)	20,890	27,463	40,344
PP Plastic Cards	363	300	279
Glass packaging	60	21	28
Plastic reagent packaging*	50,827	30	21
Red cell reagents (liters)**	0	266,803	275,435
PVC pellets, flat tubes and sheets	0	14	121

*Plastic containers from the San Diego plant have been added to the calculation

**The data taken into account in previous years corresponds to production and not to purchasing. Therefore, it is no longer considered for calculation in 2023.

MAIN MATERIALS CONSUMED - OTHERS

Absolute value (T)	2023	2022	2021
PP	1,067	979	832
Glucose	112	185	148
Sodium chloride	281	210	208
Glass packaging	350	526	238
Total	1,810	1,900	1,426