

AmerisourceBergen

U.S. Biosimilar Report

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About this report

Biosimilars are a promising product category, one that can provide patients and doctors with more affordable treatment options.

To date, there have been 33 approvals and 21 launches in the U.S. biosimilar market. As this market matures, its pipeline continues to grow. This reference guide is a useful tool to visualize and understand the current product landscape and potential future of this emerging market.

The market landscape chart is grouped by therapeutic class with FDA approved biosimilars (highlighted in white) and biosimilars launched to date (highlighted in green) organized in columns under the relevant molecule and innovator product.

The market pipeline charts show products that have not received FDA approval and are expected to launch in one to four years. These charts suggest a bright future for biosimilars, as they document a large number of existing and new suppliers investing in biosimilars. The pipeline charts also capture the expansion of biosimilars into new therapeutic areas including ophthalmology, insulin, growth hormone, infertility and immunosuppressants.

U.S. biosimilar market landscape

As of December 20, 2021

Class	Supportive care			Oncology			Insulin	Ophthalmology
Molecule	Filgrastim	Epoetin	Pegfilgrastim	Rituximab	Bevacizumab	Trastuzumab	Insulin Glargine	Ranibizumab
Innovator	NEUPOGEN (Amgen)	EPOGEN / PROCRIT (Amgen / JnJ)	NEULASTA (Amgen)	RITUXAN (Genentech)	AVASTIN (Genentech)	HERCEPTIN (Genentech)	LANTUS (Sanofi)	LUCENTIS (Genentech)
Launched Manufacturer launch date	ZARXIO Sandoz Sep 2015	RETACRIT Pfizer/Vifor Nov 2018	FULPHILA Mylan Jul 2018	TRUXIMA Teva Nov 2019	MVASI Amgen Jul 2019	KANJINTI Amgen Jul 2019	INT SEMGLEE Viatris/Mylan Nov 2021 Interchangeability designation	
Approved Manufacturer FDA approval date	NIVESTYM Pfizer Oct 2018		UDENYCA Coherus Jan 2019	RUXIENCE Pfizer Jan 2020	ZIRABEV Pfizer Jan 2020	OGIVRI Mylan Nov 2019	More details on the Insulin market on page 7	
			ZIEXTENZO Sandoz Nov 2019	RIABNI Amgen Jan 2021		TRAZIMERA Pfizer Feb 2020		
			NYVEPRIA Pfizer Dec 2020			HERZUMA Teva March 2020		
						ONTRUZANT Organon Apr 2020		
							REZVOGLAR Eli Lilly Dec 2021	BYOOVIZ Biogen Sept 2021

INT = Interchangeability approval by the FDA. For more details on interchangeability, please visit <https://www.fda.gov/media/151094/download>

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U.S. biosimilar market landscape

As of December 20, 2021

Class	TNF blockers			
Molecule	Infliximab	Etanercept	Adalimumab	
Innovator	REMICADE (JnJ)	ENBREL (Amgen)	HUMIRA (AbbVie)	
Launched Manufacturer launch date	<p>INFLECTRA Pfizer Nov 2016</p> <p>RENFLEXIS Organon Jul 2018</p> <p>AVSOLA Amgen July 2020</p>	Ongoing litigation forecasted launch 2028/2029	Biosimilars referencing Humira will launch in 2023	
Approved Manufacturer FDA approval date	<p>IXIFI Pfizer Dec 2014</p> <p>*Not launching in the U.S.</p>	<p>ERELZI Sandoz Aug 2016</p>	<p>AMJEVITA Amgen Sep 2016</p> <p>INT CYLTEZO BI Aug 2017</p> <p>HYRIMOZ Sandoz Oct 2018</p> <p>HADLIMA Organon Jul 2019</p> <p>ABRILADA Pfizer Nov 2019</p>	<p>HULIO Mylan Jul 2020</p> <p>YUSIMRY Cohesus Dec 2021</p>

INT = Interchangeability approval by the FDA.
For more details on interchangeability, please
visit <https://www.fda.gov/media/151094/download>

U.S. biosimilar pipeline landscape

As of December 20, 2021

Class	Supportive care	Oncology	Ophthalmology
Molecule	Filgrastim, Epoetin, Pegfilgrastim	Rituximab, Bevacizumab, Trastuzumab	Ranibizumab, Aflibercept
Innovator	NEUPOGEN (Amgen), EPOGEN / PROCRIT (Amgen / JnJ), NEULASTA (Amgen)	RITUXAN (Genentech), AVASTIN (Genentech), HERCEPTIN (Genentech)	LUCENTIS (Genentech), EYLEA (Regeneron)
Pipeline Manufacturer clinical phase	<p>GRASTOFIL Accord-Apotex Pending</p> <p>FILGRASTIM KASHIV Amneal-Adello Pending</p> <p>LUPIFIL Lupin Ph I</p> <p>TX01 Tanvex CRL</p> <p>APO-EPO Apotex Ph III</p> <p>TPI-120 Amneal-Adello Pending</p> <p>LAPELGA Accord-Apotex Pending</p> <p>PEG-GRAFEEL Dr Reddy's Ph I</p> <p>LUPIFIL-P Lupin Pending</p> <p>MSB11455 Fresenius/DRL Pending</p> <p>TX04 Tanvex Ph I</p>	<p>DRL RI Dr. Reddy's Ph III</p> <p>SAIT101 AZ-Archigen Ph III</p> <p>RITUXIMAB Apotex Ph I</p> <p>MABIONCD20 Mabion Ph III</p> <p>SB8 Organon-Samsung Pending</p> <p>CT-P16 Celltrion Ph I</p> <p>BEVACIZUMAB Apotex Ph I</p> <p>FKB238 AZ-Centus Pending</p> <p>TX16 Tanvex Ph I</p> <p>ALYMSYS Amneal Pending</p> <p>ABEVMY Mylan-Biocon Pending</p> <p>BAT1706 Bio-Thera Pending</p> <p>TRASTUZUMAB Apotex Pre-Clin</p> <p>TX05 Tanvex Ph III</p> <p>EG12014 Sandoz Ph III</p> <p>HD201 Prestige Bio Ph III</p> <p>AP063 Nichi-iko/Sagent Ph I</p>	<p>XLUCANE Xbrane-Bausch Ph III</p> <p>LUBT010 Lupin Ph III</p> <p>FYB201-CHS201 Coherus-Formycon Pending</p> <p>CHS-3351 Coherus Withdrawn</p> <p>M710/MYL-1701P Mylan-Momenta Pending</p> <p>ABP 938 Amgen Ph III</p> <p>FYB203 Formycon Ph III</p> <p>SB15 Biogen-Samsung Ph III</p> <p>ALT-L9 Alteogen Pre-Clin</p> <p>SCD411 Sam Chun Dang Ph III</p> <p>CHS-2020 Coherus Withdrawn</p> <p>CT-P42 Celltrion Ph III</p> <p>SOK583A1 Sandoz-Hexal Ph III</p>

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U.S. biosimilar pipeline landscape

As of December 20, 2021

Class	TNF blockers					
Molecule	Infliximab	Etanercept	Adalimumab	Ustekinumab	Tocilizumab	
Innovator	REMICADE (JnJ)	ENBREL (Amgen)	HUMIRA (AbbVie)	STELARA IV / SC (JnJ)	ACTEMRA IV/SC (Genentech)	
Pipeline Manufacturer clinical phase	NI-071 Sagent Ph III	CHS-0214 Coherus Withdrawn	M923 Momenta Withdrawn	NEULARA NeuClone Ph I	ABP654 Amgen Ph III	BAT1806 Biogen-BioThera Ph III
	GP2018 Sandoz Ph I	YLB113 Lupin Ph III	MSB11022 Fresenius Ph III	CT-P43 Celltrion Ph III	AVT04 Alvotech-Alvogen Ph III	MSB11456 Fresenius Ph III
			AVT02 (CF) Alvotech-Teva Pending	FYB202 Formycon-Bioeq Ph III	SB17 Samsung Bioepis Ph III	LUSINEX Mycenax-Gedeon Ph II
			MYL-1401A Mylan-Biocon Ph III	DMB-3115 Dong-A / Meiji Ph III	BFI-751 BioFactura Ph I	
			ONS-3010 Outlook Ph III	BAT2206 Hikma/Bio-Thera Ph III		
			YUFLYMA (CF) Celltrion Pending			

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U.S. insulin biosimilar market landscape & pipeline

As of December 20, 2021

	Insulin (Rapid Acting)		Insulin (Long Acting)		
Molecule	Insulin Lispro	Insulin Aspart	Insulin Glargine	Insulin Detemir	
Innovator	HUMALOG (Eli Lilly)	NOVOLOG (Novo Nordisk) FIASP (Novo Nordisk)	LANTUS (Sanofi) TOUJEO (Sanofi)	LEVEMIR (Novo Nordisk)	
Authorized Generic	HUMALOG AG (Eli Lilly)	NOVOLOG AG (Novo Nordisk)			
Follow-on Biologic	ADMELOG (Sanofi)		BASAGLAR (Eli Lilly)	SEMGLLEE (Viatris/Mylan)	
Launched Manufacturer launch date			SEMGLLEE (Viatris/Mylan) Nov 2021	<p>Note: 2 Biosimilar Versions</p>	
Approved Manufacturer FDA approval date			REZVOGLAR (Eli Lilly) Dec 2021		
Pipeline Biosimilars Manufacturer clinical phase	HDV Insulin Lispro - SubQ Diasome Ph II	MYL-1601D - Inj Mylan-Biocon Pending	BASALIN SubQ (Lantus) Gan&Lee-Sandoz Ph III	Insulin Glargine 300 (Toujeo) Biocon-Viatris/Mylan Pre-Clin	
	Insulin Lispro Biocon - SubQ Biocon-Mylan Pre-Clin	SAR341402 - SubQ Sanofi Ph III			
		RAPILIN Gan&Lee-Sandoz Ph I			

BASAGLAR (Follow-on biologic)

Basaglar is a follow-on biologic that launched in Dec'16 to compete with Lantus, as at the time the FDA did not allow biosimilar competition for insulin biologic products (which changed in Mar'20).

Currently available

SEMGLLEE (Follow-on biologic)

Aug'20 – FDA approved as brand (follow-on biologic) via the 351(a) pathway

Manufactured Discontinued eff 11/15/2021

NDC list
49502-195-80, 49502-196-71,
49502-196-73, 49502-196-75

SEMGLLEE-yfgn (Biosimilar) Branded Version

Jul'21 – FDA approved as an interchangeable biosimilar via the 351(k)(4) pathway

Launched in US 11/15/2021

Only interchangeable with Lantus

First and currently only biosimilar with interchangeability status

NDC list:
Semglee-yfgn:
49502-250-80 (vial)
49502-251-75 (pen)

INSULIN GLARGINE-yfgn (Biosimilar) Unbranded / Authorized Version

Jul'21 – FDA approved as an interchangeable biosimilar via the 351(k)(4) pathway

Launched in US 11/15/2021

Only interchangeable with Lantus

First and currently only biosimilar with interchangeability status

NDC list:
Insulin Glargine-yfgn:
49502-393-80 (vial)
49502-394-75 (pen)

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U.S. biosimilar pipeline landscape

As of December 20, 2021

Class	Immunosuppressant			Bone health		Growth hormone		Infertility		
Molecule	Eculizumab	Omalizumab	Natalizumab	Denosumab		Somatropin	Somapacitan	Corifollitropin Alfa	Follitropin Alfa	Follitropin Delta
Innovator	SOLIRIS (Alexion)	XOLAIR (Alexion)	TYSABRI (Biogen)	PROLIA / XGEVA (Amgen)		GENOTROPIN (Pfizer)	NORDITROPIN (NovoNordisk)	N/A <i>New formulation</i>	GONAL-F (EMD Serono)	N/A <i>Similar to Gonal-F</i>
Pipeline Manufacturer clinical phase	SB12 Samsung Bioepis Ph I ABP 959 Amgen Ph III	CT-P39 Celltrion Ph III GBR 310 Glenmark Ph I Omalizumab Momenta- Mylan Withdrawn TEV-45779 Teva Ph III	PB006 Sandoz-Polpharma Ph III	GP2411 Prolia Sandoz-Hexal Ph III LY06006 Prolia Luye Ph I TVB-009 Prolia Teva Ph III SB-16 Prolia Samsung Ph III FKS518 Prolia Fresenius Ph III JHL1266 Prolia Eden Ph I CT-P41 Prolia Celltrion Ph III	Denosumab Intas Intas Ph I LY01011 Xgeva Luye Ph I Denosumab Hikma Ph I	MOD-4023 Somatropin Inj OPKO-Pfizer Ph III TransCon hGH - SubQ Ascendis Pending	NN8640 – SubQ Novo Ph III	Elonva – SubQ Merck CRL	Afolia – SubQ Fertility-Gedeon Ph III	Rekovellev – SubQ Ferring Ph III

Connect with us

Find out how AmerisourceBergen is creating sustainability and longevity for biosimilars

Contact Sean and Brian by sending an email to biosimilars@amerisourcebergen.com



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