

## DATA SHEET

# From process validation to GMP manufacturing

GoBio™ Prod prepacked chromatography columns enable a linear scale-up from process validation to commercial and GMP manufacturing. Prepacked columns enhance facility efficiency overall by converting column packing resources into productive operations and accelerating campaign turnaround time.

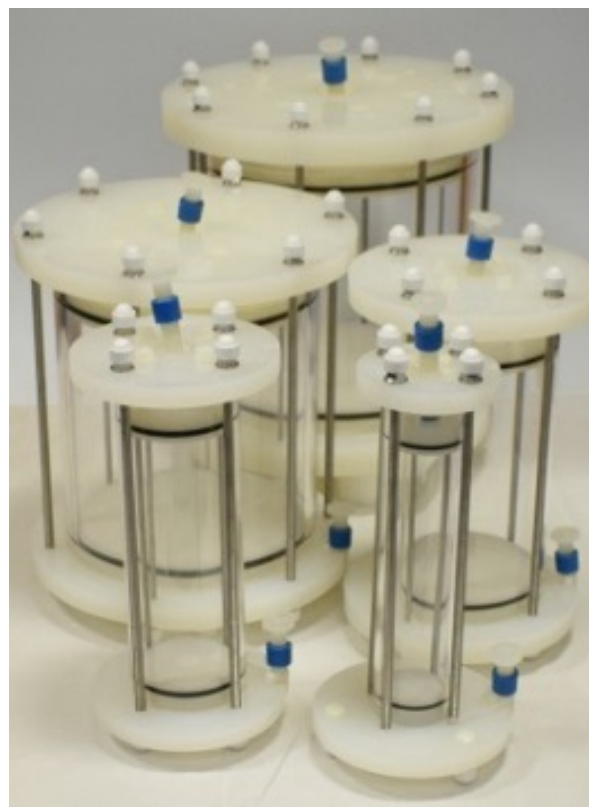
GoBio Prod columns can be delivered in 7 internal diameters (5 cm, 8 cm, 10 cm, 13 cm, 20 cm, 24 cm and 33 cm) and bed heights between 10 cm and 60 cm.

Produced at high quality standards:

- Consistent materials of construction
- Class VI and EMA/410/10 compliant material
- GMP and non-GMP quality support packages
- All columns are packed in a controlled Class 7 clean room
- Individual column testing

Available with the following WorkBeads™ resins:

- Affinity chromatography
  - WorkBeads affirmAb
- Ion exchange chromatography
  - WorkBeads 40S
  - WorkBeads 100S
  - WorkBeads 40Q
  - WorkBeads 100Q
  - WorkBeads 40 TREN
- Immobilized metal affinity chromatography
  - WorkBeads NiMAC
  - WorkBeads 40 Ni-NTA
  - WorkBeads 40 Co-NTA
  - WorkBeads 40 Cu-NTA
  - WorkBeads 40 Zn-NTA
  - WorkBeads 40 Ni-IDA
  - WorkBeads 40 Co-IDA
  - WorkBeads 40 Cu-IDA
  - WorkBeads 40 Zn-IDA
  - WorkBeads 40 NTA
  - WorkBeads 40 IDA
- Desalting
  - WorkBeads Dsalt
- Size exclusion chromatography
  - WorkBeads 40/100 SEC
  - WorkBeads 40/1000 SEC
  - WorkBeads 40/10 000 SEC
  - WorkBeads Macro SEC
  - WorkBeads 200 SEC



**Table 1.** Main characteristics of and GoBio Prod columns.

	<b>GoBio Prod 80x200, GoBio Prod 130x200, GoBio Prod 200x200, GoBio Prod 280x200, GoBio Prod 330x250</b>
Column hardware	Acrylic
Top and bottom filters	Polyamide
Top and bottom plugs	Polypropylene
Connections	TC-connections
Column volumes	1 L, 2.7 L, 6 L, 9 L, 21.4 L
Column dimensions	80 × 200 mm (1 L), 130 × 200 mm (2.7 L) 200 × 200 mm (6 L), 280 × 200 mm (9 L), 330 × 250 mm (21.4 L)
Max. column hardware pressure <sup>1</sup>	5 bar, 0.5 MPa, 70 psi
Chemical stability	1 M NaOH, 20% isopropanol, 20 % ethanol

<sup>1</sup> The maximum pressure the packed bed can withstand depends on the sample/liquid viscosity and chromatography resin characteristics. The pressure also depends on the tubing used to connect the column and the system restrictions after the column

## Ordering information

	<b>GoBio Prod 80 x 200 80 mm inner diameter 20 cm bed height Column volume 1 L</b>	<b>GoBio Prod 130 x 200 130 mm inner diameter 20 cm bed height, Column volume 2.7 L</b>	<b>GoBio Prod 200 x 200 200 mm inner diameter 20 cm bed height, Column volume 6 L</b>	<b>GoBio Prod 240 x 200 240 mm inner diameter 20 cm bed height, Column volume 9 L</b>	<b>GoBio Prod 330 x 250 330 mm inner diameter 25 cm bed height, Column volume 21.4 L</b>
WorkBeads 40Q	55 410 042	55 410 062	55 410 072	55 410 082	55 410 093
WorkBeads 40S	55 420 042	55 420 062	55 420 072	55 420 082	55 420 093
WorkBeads 100Q	55 110 042	55 110 062	55 110 072	55 110 082	55 110 093
WorkBeads 100S	55 120 042	55 120 062	55 120 072	55 120 082	55 120 093
WorkBeads 40 TREN	55 463 042	55 463 062	55 463 072	55 463 082	55 463 093
WorkBeads affirmAb	55 800 042	55 800 062	55 800 072	55 800 082	55 800 093
WorkBeads 40 DEAE	55 415 042	55 415 062	55 415 072	55 415 082	55 415 093
WorkBeads NiMAC	55 653 042	55 653 062	55 653 072	55 653 082	55 653 093
WorkBeads 40 Ni-NTA	55 651 042	55 651 062	55 651 072	55 651 082	55 651 093
WorkBeads 40 Co-NTA	55 651 442	55 651 462	55 651 472	55 651 482	55 651 493
WorkBeads 40 Zn-NTA	55 651 542	55 651 562	55 651 572	55 651 582	55 651 593
WorkBeads 40 Cu-NTA	55 651 342	55 651 362	55 651 372	55 651 382	55 651 393
WorkBeads 40 Ni-NTA	55 602 042	55 602 062	55 602 072	55 602 082	55 602 093
WorkBeads 40 Ni-IDA	55 650 042	55 650 062	55 650 072	55 650 082	55 650 093
WorkBeads 40 Co-IDA	55 650 442	55 650 462	55 650 472	55 650 482	55 650 493
WorkBeads 40 Zn-IDA	55 650 542	55 650 562	55 650 572	55 650 582	55 650 593
WorkBeads 40 Cu-IDA	55 650 342	55 650 362	55 650 372	55 650 382	55 650 393
WorkBeads 40 Ni-NTA	55 601 042	55 601 062	55 601 072	55 601 082	55 601 093
WorkBeads Dsalt	55 700 042	55 700 062	55 700 072	55 700 082	55 700 093

## GMP manufacturing

GoBio Prod columns are designed for use in GMP environments for the manufacturing of clinical and commercial biological drugs.

- Packed in ISO Class 7 clean rooms
- Complete Regulatory Support File
- Certificate of analysis for each column configuration

	GoBio Prod 80 x 200 80 mm inner diameter 20 cm bed height Column volume 1 L	GoBio Prod 130 x 200 130 mm inner diameter 20 cm bed height, Column volume 2.7 L	GoBio Prod 200 x 200 200 mm inner diameter 20 cm bed height, Column volume 6 L	GoBio Prod 240 x 200 240 mm inner diameter 20 cm bed height, Column volume 9 L	GoBio Prod 330 x 250 330 mm inner diameter 25 cm bed height, Column volume 21.4 L
WorkBeads40Q	GMP 55 410 042	GMP 55 410 062	GMP 55 410 072	GMP 55 410 082	GMP 55 410 093
WorkBeads 40S	GMP 55 420 042	GMP 55 420 062	GMP 55 420 072	GMP 55 420 082	GMP 55 420 093
WorkBeads 100Q	GMP 55 110 042	GMP 55 110 062	GMP 55 110 072	GMP 55 110 082	GMP 55 110 093
WorkBeads 100S	GMP 55 120 042	GMP 55 120 062	GMP 55 120 072	GMP 55 120 082	GMP 55 120 093
WorkBeads 40 TREN	GMP 55 463 042	GMP 55 463 062	GMP 55 463 072	GMP 55 463 082	GMP 55 463 093
WorkBeads affimAb	GMP 55 800 042	GMP 55 800 062	GMP 55 800 072	GMP 55 800 082	GMP 55 800 093
WorkBeads 40 DEAE	GMP 55 415 042	GMP 55 415 062	GMP 55 415 072	GMP 55 415 082	GMP 55 415 093
WorkBeads NiMAC	GMP 55 653 042	GMP 55 653 062	GMP 55 653 072	GMP 55 653 082	GMP 55 653 093
WorkBeads 40 Ni-NTA	GMP 55 651 042	GMP 55 651 062	GMP 55 651 072	GMP 55 651 082	GMP 55 651 093
WorkBeads 40 Co-NTA	GMP 55 651 442	GMP 55 651 462	GMP 55 651 472	GMP 55 651 482	GMP 55 651 493
WorkBeads 40 Zn-NTA	GMP 55 651 542	GMP 55 651 562	GMP 55 651 572	GMP 55 651 582	GMP 55 651 593
WorkBeads 40 Cu-NTA	GMP 55 651 342	GMP 55 651 362	GMP 55 651 372	GMP 55 651 382	GMP 55 651 393
WorkBeads 40 Ni-NTA	GMP 55 602 042	GMP 55 602 062	GMP 55 602 072	GMP 55 602 082	GMP 55 602 093
WorkBeads 40 Ni-IDA	GMP 55 650 042	GMP 55 650 062	GMP 55 650 072	GMP 55 650 082	GMP 55 650 093
WorkBeads 40 Co-IDA	GMP 55 650 442	GMP 55 650 462	GMP 55 650 472	GMP 55 650 482	GMP 55 650 493
WorkBeads 40 Zn-IDA	GMP 55 650 542	GMP 55 650 562	GMP 55 650 572	GMP 55 650 582	GMP 55 650 593
WorkBeads 40 Cu-IDA	GMP 55 650 342	GMP 55 650 362	GMP 55 650 372	GMP 55 650 382	GMP 55 650 393
WorkBeads 40 Ni-NTA	GMP 55 601 042	GMP 55 601 062	GMP 55 601 072	GMP 55 601 082	GMP 55 601 093
WorkBeads Dsalt	GMP 55 700 042	GMP 55 700 062	GMP 55 700 072	GMP 55 700 082	GMP 55 700 093

For other column dimensions contact your nearest sales representative or [contact@bio-works.com](mailto:contact@bio-works.com)

## GoBio prepacked column family

GoBio prepacked column family is developed for convenient, reproducible and fast results and includes columns with different sizes and formats.

GoBio Mini 1 mL and GoBio Mini 5 mL for small scale purification and screening using a shorter packed bed.

GoBio Screen 7x100 (3.8 mL) for reproducible process development including fast and easy optimization of methods and parameters.

GoBio Prep 16x100 (20 mL) and GoBio Prep 26x100 (53 mL) for lab-scale purifications and scaling up.

GoBio Prep 16x600 (120 mL) and GoBio Prep 26x600 (320 mL) for preparative lab-scale size exclusion chromatography.

GoBio Prod 80x200 (1 L), GoBio Prod 130x200 (2.7 L), GoBio Prod 200x200 (6 L), GoBio Prod 240x200 (9 L) and GoBio Prod 330x250 (21.4 L) for production-scale purifications.

## bio-works.com

Bio-Works, WorkBeads and GoBio are trademarks of Bio-Works Technologies.  
All third-party trademarks are the property of their respective owners.

© Bio-Works.

All goods and services are sold subject to Bio-Works terms and conditions of sale.  
Contact your local Bio-Works representative for the most current information.

Bio-Works, Virdings allé 18, 754 50 Uppsala, Sweden. For local office contact information, visit [bio-works.com/contact](http://bio-works.com/contact).

DS 55 410 042 BA