UHT inside
Ultra Harmonic Technology

Avanti J-15 Series

The Reliability and Performance You Trust

BRILLIANCE
at every turn.

BECKMAN COULTER
Life Sciences

FROM GENERAL CELL CULTURE PREPARATIONS TO PURIFIED END PRODUCT APPLICATIONS

THE NEW AVANTI J-15 SERIES IS PART OF A NEW FAMILY OF LIFE SCIENCE EQUIPMENT THAT PROVIDES THE EXCEPTIONAL PERFORMANCE YOU EXPECT FROM BECKMAN COULTER.

The Avanti J-15 is an all around solution for everyday scientific needs.

Tissue Culture

Routine cell culture procedures are made easy and safe with the use of aerosolve canister. The BioCertified* enhancement is made of a clear shell to allow sample visibility even before the canister is opened.

Transfection/ Transduction

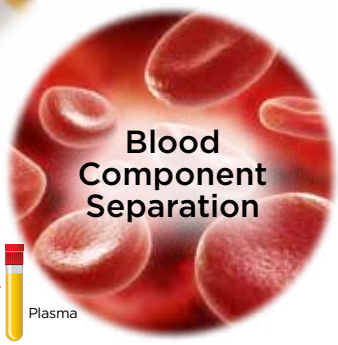
Centrifugal boosts, or spin-fection, increases transduction and transfection rate up to 10 fold§

Nucleic Acid Purification

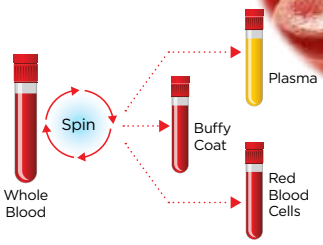
Achieve high quality plasmid DNA purification using low speed centrifugation and swinging bucket

Assay Setup

The microplate carriers add the versatility to perform assays or grow cells in a plate format



Blood Component Separation



Optimize blood sample separations with new technology that avoids sample interface disturbances¥

Brilliance at Every Turn

§ Berggren, W. Travis, Margaret Lutz, and Veronica Modesto. General spinfection protocol. StemBook (2012).

¥ Fuss, Ivan J., et al. Isolation of whole mononuclear cells from peripheral blood and cord blood. John Wiley & Sons, Inc., 2009.

ENHANCED CONTROL OF SAMPLE, TIME AND WORKFLOW

Speed Efficiency and Minimum Sample Disturbances with Ultra Harmonic Technology

Intelligent acceleration and deceleration profiles

Durable and Easy-to-Clean, Innovative Design

A hallmark of Beckman Coulter's life science equipment

Fast and Accurate Imbalance Detection

Early diagnostic eliminates false positives with hardware and software improvements

Efficiency

Easy one-touch access to 6 programs and store up to 99 programs

Optimize Bench Space

With our truly ventilated unit while processing any protocol in cell culture, blood separation or microbiology

Ease of Use and Faster Accessibility

Icon usability and intuitive display on high contrast color LCD screen

BIOC

* BioCertified has been tested and validated to demonstrate containment of microbial aerosols by an independent third party facility (Health Protection Agency, Porton Down, UK or USAMRIID, Ft. Detrick, MD, USA).

COMPLIANCE AND TECHNICAL SUPPORT

- At Beckman Coulter, engineering , sales, support, training and service work together to offer comprehensive and extensive customer focused products.
- Expert service engineering team strives for “Fix It Right the First Time.”
- Certifications of Compliance.

Specification	Description	Avanti J-15	Avanti J-15R
Speed	Set Speed	200 to 10,200 RPM in 10 RPM increments	200 to 10,200 RPM in 10 RPM increments
	Set RCF	10 to 11,420 x *g* in 10 x *g* increments	10 to 11,420 x *g* in 10 x *g* increments
	Speed Display	Actual rotor speed in 10 RPM increments or actual RCF in 10 x *g* increments	
	Speed Accuracy	±25 RPM of Set Speed from 200 to 10,200 RPM	
Time	Set Time	1 minute to 99 hours and 59 minutes or continuous (Hold)	
	Time Display	Timed run: indicates run time remaining (HH:MM:SS) Hold run: indicates elapsed time (HH:MM:SS) Pulse run: indicates elapsed time (HH:MM:SS)	
Temperature	Set Temperature[1]	N/A	-10 to +40° C in 1° C increments
	Temperature Display		Chamber temperature in 1° C increments
	Temperature Accuracy		±2° C of Chamber temperature (after equilibration)
	Over Temperature Shutdown[2]	> 55° C	> 55° C
Acceleration	Acceleration Profiles	10 acceleration rates, including maximum torque	
Deceleration	Deceleration Profiles	11 deceleration rates, including maximum torque and no braking	
Dimensions	Width	55.6 cm (21.9 in)	75.6 cm (29.8 in)
	Depth	74.9 cm (29.5 in)	70.3 cm (27.7 in)
	Height	36.8 cm (14.5 in)	36.8 cm (14.5 in)
Weight	Weight, not including rotor	93 kg (205 lbs)	120 kg (265 lbs)
Ventilation Clearances	Sides	30 cm (12.0 in)	7.6 cm (3.0 in)
	Rear	30 cm (12.0 in)	7.6 cm (3.0 in)
Finishes	Top Surface	Painted steel	
	Front Surface	Uncoated plastic	
	Door	Painted aluminum and plastic	
Electrical	Electrical Requirements	100V, 12A, 50/60Hz 120V, 10A, 50/60Hz	120V, 12A, 60Hz
		200-230V, 6A, 50/60Hz	200-230V, 8A, 50Hz 208-230V, 9A, 60Hz
	Electrical Supply	Class 1	
	Installation (overvoltage) Category	II	
Environmental	Noise output (1 m in front of instrument, 1.5 m above the floor with JA-10.100 rotor at 10,200 RPM)	71 dBA[3]	58 dBA
	Ambient Temperature Range	10 to 31° C	10 to 35° C
	Humidity	80%, noncondensing	80%, noncondensing
	Refrigerant	N/A	R404A
	Maximum Heat Dissipation under steady state conditions	4095 Btu/h (1.2 kW)	120V: 4913 Btu/h (1.44 kW) 200-230V: 6551 Btu/h (1.92 kW)
	Pollution Degree[4]	2	
	Altitude	Up to 2,000 meters	
Technology	Ultra Harmonic Technology	✔	✔

Providing 70 years of global leadership in centrifugation, Beckman Coulter Life Sciences designs, manufactures, sells, and services a complete line of centrifuge systems. By offering unique rotors and innovative bottles, tubes and accessories, coupled with advanced centrifugation software, Beckman Coulter delivers intelligent centrifugation solutions to laboratory science.

Learn more at **beckman.com**

Rotors

Item No.	Item Description
B77580	Rotor Assembly, JS-4.750
B77584	Rotor Assembly, JA-10.100
B83980	Rotor Assembly, JS-4.750 Microplate Carriers

1 To reach temperatures above ambient, the centrifuge is dependent on the frictional heat generated inside the chamber during operation. At low run speeds or low ambient temperatures, the centrifuge may not be able to achieve some higher temperatures.

2 If the system reaches this temperature, it will issue a diagnostic and shut down using maximum brake.

3 Consult your laboratory safety officer regarding use of ear protection.

4 Normally, only nonconductive pollution occurs. Occasionally, however, a temporary conductivity caused by condensation must be expected.

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For Beckman Coulter’s worldwide office locations and phone numbers, please visit “Contact Us” at **beckman.com**

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