

## Acclaim Trinity P2 Columns

### Quick Start

#### 1. Overview

The Thermo Scientific™ Acclaim™ Trinity™ P2 column is a high-performance, silica-based column specifically designed for separation of mono- and multi-valent pharmaceutical counter ion analysis.

#### 2. Main features

- Desired selectivity for pharmaceutical counter ion screening
- Retention of ionic and ionizable analytes without using ion-pairing reagents
- Compatibility with CAD and MS detection methods
- Easy to use
- Rugged packing

#### 3. Physical data

- Column Chemistry: Proprietary HILIC/WCX/SAX mixed-mode
- Silica Substrate: Spherical, high-purity, porous
  - Particle size – 3 μm
  - Surface area – 300 m<sup>2</sup>/g
  - Pore size – 120 Å

#### 4. Operational Parameters

Column Dimension	P/N	Maximum Pressure (psi)	pH Range	Temperature Range (°C)	Solvent/Aqueous Compatibility	Recommended Flow Rate (mL/min)	Maximum Flow Rate (mL/min)
3.0 x 50 mm	085433	6,000	2.0 – 8.0	up to 60	Compatible with 0 – 100% aqueous	0.30 – 0.60	0.90
3.0 x 100 mm	085434					0.30 – 0.60	0.90
2.1 x 50 mm	085431				0.15 – 0.30	0.45	
2.1 x 100 mm	085432				0.15 – 0.30	0.45	
3.0 x 10 mm	085436				0.30 – 0.90	1.50	
2.1 x 10 mm	085435				0.15 – 0.45	0.75	

## 5. Operational Guidelines

- Read and understand Column Manual before using this product.
- Use the column following the direction of flow marked on the column.
- Operate this column according to “Operational Parameters” described above.
- Avoid sudden pressure surge.
- Must use the column in buffered mobile phase.
- Must store the column in buffered solution, such as 90% acetonitrile/10% 10 mM ammonium formate or acetate (pH 3.5 – 5.5), or 100% acetonitrile for long-term storage. Store the column in mobile phase for short-term storage (< 24 hours).
- Due to the nature of the weak cation-exchange functionality, this column should NOT be exposed to alcohols.
- Always use guard column to protect the analytical column and extend its useful lifetime.

Description	Particle Size	Length (mm)	2.1 mm ID	3.0 mm ID
Acclaim Trinity P2 Analytical Column	3 µm	50	085431	085433
		100	085432	085434
Guard Cartridges (2/pk)	3 µm	10	085435	085436
Acclaim Guard Cartridge Holder			069580	069580