

## Low-profile dispensers

### The Acurex™ compact 501

**Compact dispensers for safe reagent handling, adapted to refrigerator storage as well as water bath heating.**  
**Dosing mechanism entirely protected inside reservoir.**  
**Manufactured and tested to fully comply with the latest regulations on instrument safety and precision.**  
**Volumes range from 0.2 to 30 mL.**  
**Two-year warranty.**

- Integrated dosing mechanism
- Simple, robust construction
- Retractable graduated column reduces instrument height
- Fluid path materials excluding any metal
- Choice of four reservoir sizes
- Fully autoclavable at 121°C / 250°F

**501**

0.2 - 2 mL  
 0.4 - 5 mL  
 1 - 10 mL  
 1 - 30 mL



#### Space saving low profile

The graduated column is retractable for height reduction, making the dispenser ideal for storage in refrigerators.



#### Glass reservoir

Amber glass offers optimal light protection.



#### Autoclavable extension tubing

PTFE Jet-Pen™ and tubing help dispense into vessels with maximum comfort within a 60 cm distance. For 1 and 2 L reservoirs (Cat. No. 1.523).

### Performance and ordering information

Volume	Division	Imprecision (CV%)			Reservoir capacity	Cat. No.
		Min. vol.	Mid. vol.	Max. vol.		
0.2 - 2 mL	0.1 mL	< 0.5 %	< 0.35 %	< 0.1 %	250 mL	501.02025
0.2 - 2 mL	0.1 mL	< 0.5 %	< 0.35 %	< 0.1 %	1000 mL	501.021
0.2 - 2 mL	0.1 mL	< 0.5 %	< 0.35 %	< 0.1 %	2000 mL	501.022
0.4 - 5 mL	0.2 mL	< 0.5 % <sup>1</sup>	< 0.35 %	< 0.1 %	500 mL	501.0505
0.4 - 5 mL	0.2 mL	< 0.5 % <sup>1</sup>	< 0.35 %	< 0.1 %	1000 mL	501.051
0.4 - 5 mL	0.2 mL	< 0.5 % <sup>1</sup>	< 0.35 %	< 0.1 %	2000 mL	501.052
1 - 10 mL	0.2 mL	< 0.5 %	< 0.35 %	< 0.1 %	1000 mL	501.101
1 - 10 mL	0.2 mL	< 0.5 %	< 0.35 %	< 0.1 %	2000 mL	501.102
1 - 30 mL	1.0 mL	< 0.5 % <sup>2</sup>	< 0.35 %	< 0.1 %	2000 mL	501.302

Performance values obtained with bidest. water at constant temperature (± 0.5°C) comprised between 20 and 25°C in accordance with ISO 8655. <sup>1</sup>measured at 0.5 mL <sup>2</sup>measured at 3 mL

### Chemically inert materials

All parts in contact with the liquid are made from chemically inert materials.

Parts	Materials
Valve	Pyrex glass and synthetic ruby
Barrel	Neutral glass
Plunger	FEP-coated glass
Reservoir	Amber glass
Delivery jet and union	PTFE / ETFE / PFA



View chart

# Microdispenser and dispenser chemical resistance chart



Chemicals A - H	Acura 865					Acurex 501					Calibrex				
	865	501	520	525	530	865	501	520	525	530	865	501	520	525	530
Acetaldehyde (Ethanal)		+	++	++	++										
Acetic acid 96%	+	+	++	++	+										
Acetic acid 100% (Glacial)	+	++	++	+	+										
Acetone (Propanone)		++	+	++	++										
Acetonitrile (MECN)	+	++	++	+	+										
Acetyl chloride		+	+	+	+										
Amino acids		+	++		++										
Ammonium chloride	+	+	++		++										
Ammonium hydroxide (amonia)		++	++	+	+										
Amyl alcohol (Pentanol)	++	++	++	++	++										
Aniline	+	++	++	++	++										
Ascorbic acid	+	++	++		++										
Benzaldehyde		++	++	++	++										
Benzene		++	+	+	+										
Boric acid 10%	+	++	++	+	++										
Bromine	+	+	+												
Butanol	+	++	++	++	++										
Butanone (MEK)		++													
Butyl acetate		++	++	+	+										
N-Butylamine		+	+	+	+										
Butyric acid	+	+	+	+	+										
Calcium chloride	+	+	++		++										
Calcium hydroxide	+	+	+		+										
Carbon disulfide	+	++	++	+	+										
Carbon tetrachloride		++	++	+	+										
Chlorine dioxide			+	+	+										
Chlorobenzene	+	++	++	+	+										
Chlorobutane	+	++	++	+	+										
Chloroethanol	+	++	++	+	+										
Chloroform			+	+	+										
Chlorosulfuric acid 100%			+	+	+										
Chromic acid 100%	+	+	+	+	+										
Citric acid	++	++	++	+	++										
Copper sulfate	+	+	++		++										
Cyclohexane	+	++	++	+	+										
Cyclohexanone		++	++	+	+										
Cyclopentane	+	+	+	+	+										
1,4-Dioxane (Diethylene dioxide)		++	++	+	+										
Dichloroacetic acid		+	++	++	++										
Dichlorobenzene	+	++	++	++	++										
Dichloroethane (DCE)	+	+	+	++	++										
Dichloromethane (DCM)	+	+	+	+	+										
Diesel oil (Heating oil)	+	++	++	++	++										
Diethylene glycol	+	++	++	++	++										
Diethylether		++	++	+	+										
Dimethyl sulfoxide (DMSO)	+	++	++	+	+										
Dimethylformamide (DMF)		++	+	+	+										
Essential oils		+	+	+	+										
Ethanol	+	++	++	++	++										
Ether		++	+	+	+										
Ethyl acetate		++	++	+	+										
Ethylenediamine		++	++	++	++										
Ethylene glycol	+	++	++	++	++										
Formaldehyde (Formalin)	++	++	++	++	++										
Formamide	+	++	++	++	++										
Formic acid		++	++	++	++										
Gamma-butyrolactone		++	++	++	++										
Gasoline		++	++	+	+										
Glycerin <40%	++	++	++	++	++										
Heptane	+	++	++	++	++										
Hexane	+	++	++	++	++										
Hydrochloric acid <20%	+	+	++	++	++										
Hydrochloric acid 37% (HCl)		+	++	+	+										
Hydrofluoric acid (HF)															
Hydrogen peroxide	+	++	++	++	+										

Chemicals I - Z	Acura 865					Acurex 501					Calibrex				
	865	501	520	525	530	865	501	520	525	530	865	501	520	525	530
Iodine		+	++	++	+										
Isooctane		+	++	++	++										
Isopropanol	++	++	++	++	++										
Isopropylamine	+	++	++	+	+										
Lactic acid		++	++		++										
2-Methoxyethanol	+	++	++	++	++										
Methanol	++	++	++	++	++										
Methyl chloride (Chloromethane)		+	+	+	+										
Methyl methacrylate (MMA)		++	++	+	+										
Methyl propyl ketone (2-Pentanone)		+	+	++	++										
Methylene chloride (Dichloromethane) (DCM)		++	+	+	+										
Nitric acid >70%		+													
Nitric acid 30-70%	+	+	+	+	+										
Nitro-hydrochloric acid (Aqua regia)		+	+	+	+										
N-methyl-2-pyrrolidone (NMP)	+	++	++	++	++										
Octane	++	++	++	++	++										
Octanol	++	++	++	++	++										
Oil, mineral (engine oil)	++	++	++	++	++										
Oil, vegetable, animal	+	++	++	+	+										
Oil of turpentine	+	++	++	+	+										
Oxalic acid	+	++	++	++	++										
Pentane	+	+	+	+	+										
Perchloric acid 100%	+	+	+	+	+										
Perchloric acid diluted	+	++	++	++	++										
Petroleum	+	++	++	+	+										
Petroleum ether / spirit		++	++	+	+										
Phenol	+	++	++	++	++										
Phenylhydrazine	+	++	++	+	+										
Phosphoric acid 100%	+	++	++	++	++										
Potassium chloride		+	++		++										
Potassium dichromate	+	++	++		+										
Potassium hydroxide	+	+	+		++										
Potassium iodide	+	++	++		++										
Potassium permanganate		++	++		+										
Propionic acid (Propanoic acid)	+	++	++	++	++										
Propylene glycol (Propane-1,2-diol)	++	++	++	++	++										
Picric acid (Trinitrophenol)	+	++	++	+	+										
Pyridine		+	+	+	+										
Scintillation fluid	+	++	++	++	++										
Silver nitrate		++	+		++										
Sodium acetate		++	++		++										
Sodium chloride (Kitchen salt)	+	+	++		++										
Sodium hydroxide 30%		+	++		+										
Sodium hypochlorite (Javel water)		++	++		+										
Sodium thiosulfate	+	++	++		++										
Sulfuric acid <60%	+	++	+	++	++										
Sulfuric acid >60%	+	+	+	+	+										
Terebentine oil	+	++	++	++	++										
Tetrahydrofuran (THF)	+	+	+	+	+										
Toluene		++	++	++	++										
Trichlorethylene		++	++	+	+										
Trichloroacetic acid		++	++	+	+										
Trichloroethane		+	+	+	+										
Trichloromethane (Chloroform)	+	+	+	+	+										
Triethylene glycol	+	++	++	++	++										
Trifluoroacetic acid (TFA)	+	+	+	+	+										
Urea		+	+		+										
Xylene		++	+	+	+										

++ Good resistance + Acceptable with limitation

## Extended chemical lists



Acura® 865



Acurex™ 501  
Calibrex™ 520



Calibrex™ 525/530