

Redi-Dri™ Free-Flowing Powders

Always ready, always dry!

Redi-Dri™ products don't harden or clump like most hygroscopic powders used in the lab, such as conventional salts and buffers. High-quality Redi-Dri™ reagents are prepared and packaged using specialized equipment under controlled environmental conditions designed to promote product stability and usability.

Our Redi Dri™ packaging system prevents water absorption from the atmosphere for continually free-flowing and ready-to-use materials – without chemical additives, anti-clumping agents, or hydrophobic compounds.

Keep your work flowing

- Decrease time spent on sample preparation due to easier material handling
- Reduce the risk of injury and chemical exposure that can occur in breaking up hardened products
- Avoid product contamination, dosage errors, and waste

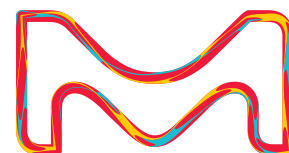
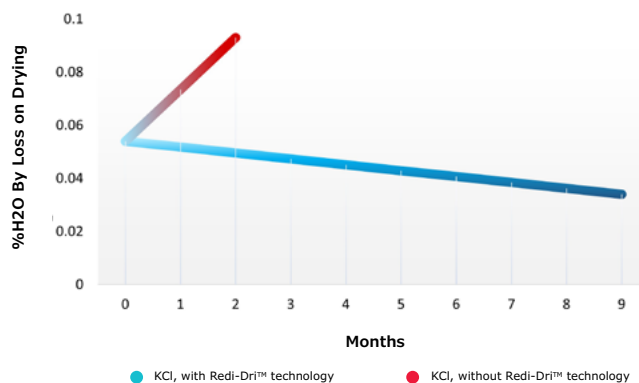
Quality tested

In a 9-month study, potassium chloride (KCl) in Redi-Dri™ packaging was tested against standard packaging in a controlled environment at $85 \pm 5\%$ relative humidity. The material was visually inspected and tested monthly using water loss on drying (LOD) analysis of 5g samples under full vacuum conditions for 4 hours at 130°C .

The results indicate that the Redi-Dri™ material had lower LOD values and remained free-flowing throughout the test period as compared to the standard-packaged material, which had acquired a higher moisture content and hardened, caked characteristics.



LOD Time Study of the Redi-Dri™ Packaging System



Flexible volumes

Available in typical research sizes of 100 g or 500 g, to scale-up quantities of 25 kg, or custom sizes for your specific applications.

Contact us at labessentials@sial.com for a quotation.

We offer a broad portfolio of free-flowing, hygroscopic products to support all your needs. Find products sorted alphabetically and by grade (reagent grade, Bioreagent, ReagentPlus®, and ACS reagent).



Redi-Dri™ Buffers

From general purpose to specific laboratory applications, our buffers provide solution stability and pH control.

Buffers	Cat. No.
L-Ascorbic acid, anhydrous, ACS reagent, ≥99%	795437
ACES, anhydrous, ≥99.0%	RDD010
Bicine, anhydrous, reagent grade, ≥99%	RDD036
2,2'-Bipyridyl, anhydrous, ReagentPlus®, 99%	798533
BIS-TRIS propane, anhydrous, ≥99.0%	RDD014
BIS-TRIS, anhydrous, ≥98.0%	RDD013
CAPS, anhydrous, ≥98.0%	RDD015
Citric acid, anhydrous, ACS reagent, ≥99.5%	791725
Ethanolamine hydrochloride, anhydrous, reagent grade, ≥99.0%	RDD028
HEPES, anhydrous, ≥99.5%	RDD002
HEPES sodium salt, anhydrous, reagent grade, ≥99.5% (titration)	RDD035
Hexamethylenetetramine, anhydrous, ACS reagent, ≥99.0%	797979
Imidazole, anhydrous, suitable for molecular biology, ≥99.5% (titration)	RDD039
Imidazole, anhydrous, ACS reagent, ≥99%	792527
Imidazole, anhydrous, ReagentPlus®, ≥98.5% (GC)	RDD044
Malonic acid, anhydrous, ReagentPlus®, 99%	792535
MES hemisodium, ≥98%	RDD031
MES hydrate, ≥99.0%	RDD030
MOPS sodium salt, anhydrous, ≥99.5%	RDD018
MOPS, anhydrous, ≥99.5%	RDD003
Phthalic anhydride, anhydrous, ACS reagent, ≥99%	797995
PIPES, anhydrous, ≥99%	RDD004
Potassium phosphate monobasic, anhydrous, ReagentPlus®, ≥99.0% (titration)	RDD020
Potassium phosphate monobasic, anhydrous, suitable for cell culture, ≥99.0%	RDD037
Potassium phosphate tribasic, anhydrous, reagent grade, ≥98%	RDD019
Sodium phosphate dibasic, anhydrous, BioReagent, ≥99.0%	RDD038
Sodium phosphate dibasic, anhydrous, ReagentPlus®, ≥99.0%	RDD022
Sodium phosphate monobasic, anhydrous, ≥99.0%	RDD007
Succinic acid, anhydrous, ACS reagent, ≥99.0%	797987
L-(+)-Tartaric acid, anhydrous, ACS reagent, ≥99.5%	798665
Tricine, anhydrous, ≥99%	RDD024
Trizma® base, anhydrous, ≥99.9%	RDD008
Trizma® hydrochloride, anhydrous, ≥99.0%	RDD009

Redi-Dri™ Acids and Bases

Our portfolio includes convenient acids and bases in a variety of essential grades and many applications.

Acids and Bases	Cat. No.
Ethylenediaminetetraacetic acid, anhydrous, ≥98%	798681
Ethylenediaminetetraacetic acid, anhydrous, ACS reagent, 99.4-100.6%	RDD017
Fumaric acid, anhydrous, ≥99%	798673
Glycolic acid, anhydrous, ReagentPlus®, 99%	798053
Sodium hydroxide, anhydrous, pellets, ACS reagent, ≥97%	795429
Sodium hydroxide, anhydrous, reagent grade, ≥98%, pellets	901915

Redi-Dri™ Salts

We offer a wide range of high quality salts up to ACS grade to suit your research and production needs.

Salts	Cat. No.
Acetylcholine chloride, anhydrous, reagent grade, ≥99.0% (TLC)	RDD043
Ammonium chloride, anhydrous, ACS reagent, ≥99.5%	901230
Ammonium formate, anhydrous, reagent grade, 97%	798568
Ammonium nitrate, anhydrous, ACS reagent, ≥98%	804819
Ammonium persulfate, ACS reagent, ≥98.0%	908932
Ammonium persulfate, reagent grade, 98%	911127
Ammonium phosphate monobasic, anhydrous, ACS reagent, ≥98%	795461
Ammonium sulfate, anhydrous, ReagentPlus®, ≥99.0%	901874
Ammonium sulfate, anhydrous, ACS reagent, ≥99.0%	901229
Ammonium thiocyanate, ACS reagent, ≥97.5%	909009
Calcium carbonate, anhydrous, ACS reagent, ≥99%	795445
Calcium carbonate, anhydrous, ReagentPlus®, ≥99%	900500
Calcium chloride, anhydrous, ≥97%	746495
Calcium chloride, anhydrous, ACS reagent, ≥96%	793639
Calcium chloride, anhydrous, granular, ≤7.0 mm, ReagentPlus®, ≥93%	902179
Cesium chloride, anhydrous, ReagentPlus®, 99.9%	746487
Copper(II) sulfate, ReagentPlus®, ≥99%	908940
Hydroxylamine hydrochloride, ACS reagent, 98.0%	911119
Iron(III) chloride, reagent grade, 97%	908908
Lithium bromide, anhydrous, ReagentPlus®, ≥99%	746479
Lithium chloride, anhydrous, ACS reagent, ≥99%	746460
Lithium chloride, anhydrous, ReagentPlus®, 99%	793620
Lithium hydroxide, powder, reagent grade, ≥98%	909025
Magnesium sulfate, anhydrous, reagent grade, ≥97%	793612
Magnesium sulfate, anhydrous, ReagentPlus®, ≥99.5%	746452
OXONE®, monopersulfate compound	911356
Phosphorus pentoxide, anhydrous, ReagentPlus®, 99%	902160
Potassium acetate, anhydrous, ACS reagent, ≥99%	791733
Potassium bromide, anhydrous, ACS reagent, ≥99%	746444
Potassium bromide, anhydrous, ReagentPlus®, ≥99%	793604
Potassium carbonate, anhydrous, ACS reagent, ≥99%	791776
Potassium carbonate, anhydrous, ReagentPlus®, 99%	900501
Potassium carbonate, anhydrous, –325 mesh, reagent grade, ≥98%	900502
Potassium chlorate, anhydrous, ACS reagent, ≥99%	799386
Potassium chloride, anhydrous, ACS reagent, ≥99%	746436
Potassium chloride, anhydrous, ReagentPlus®, ≥99%*	793590
Potassium hydroxide, reagent grade, 90%, flakes	909122
Potassium hydroxide, ACS reagent, ≥85%, pellets	911062
Potassium iodide, anhydrous, ACS reagent, ≥99%	746428
Potassium iodide, anhydrous, ReagentPlus®, 99%	793582
Potassium persulfate, ACS reagent, ≥99.0%	906735
Potassium phosphate dibasic, anhydrous, ACS reagent, ≥98%	795496
Potassium phosphate monobasic, anhydrous, ACS reagent, ≥99%	795488
Sodium acetate, anhydrous, ACS reagent, ≥99%	791741
Sodium acetate, anhydrous, ReagentPlus®, ≥99.0%	908959
Sodium bicarbonate, anhydrous, ACS reagent, ≥99.7%	792519
Sodium bicarbonate, anhydrous, ReagentPlus®, ≥99.5%	900506
Sodium bisulfite, anhydrous, mixture of NaHSO ₃ and Na ₂ S ₂ O ₅ , ACS reagent	799394
Sodium bromide, anhydrous, ACS reagent, ≥99%	793574
Sodium bromide, anhydrous, ReagentPlus®, ≥99%	746401
Sodium carbonate, anhydrous, ACS reagent, ≥99.5%	791768
Sodium carbonate, anhydrous, ACS reagent, ≥99.5%	900503
Sodium carbonate, anhydrous, ACS reagent (primary standard), 99.95-100.05% dry basis	900504
Sodium carbonate, anhydrous, ReagentPlus®, ≥99.5%	900505
Sodium chloride, anhydrous, ACS reagent, ≥99%	746398
Sodium chloride, anhydrous, ReagentPlus®, ≥99%	793566
Sodium chloride, anhydrous, reagent grade, ≥99.0%	RDD041
Sodium dodecyl sulfate, anhydrous, BioReagent, ≥98.5% (GC)	RDD040
Sodium formate, anhydrous, ACS reagent, ≥99%	798630
Sodium iodide, anhydrous, ACS reagent, ≥99.5%	746371

*Not available in the EU

Salts Cont	Cat. No.
Sodium iodide, anhydrous, ReagentPlus®, ≥99%	793558
Sodium metabisulfite, anhydrous, ReagentPlus®, ≥99%	799343
Sodium nitrate, anhydrous, ReagentPlus®, ≥99%	799351
Sodium nitrite, anhydrous, ACS reagent, ≥97%	799416
Sodium nitrite, anhydrous, ReagentPlus®, ≥99.0%	901903
Sodium perchlorate, ACS reagent, ≥98.0%	906700
Sodium persulfate, reagent grade, ≥98%	906743
Sodium phosphate dibasic, anhydrous, ACS reagent, ≥99%	795410
Sodium pyruvate, anhydrous, ReagentPlus®, ≥99%	792500
Sodium sulfate, anhydrous, ACS reagent,	746363
Sodium sulfate, anhydrous, ReagentPlus®, ≥99%	793531
Sodium sulfate, anhydrous, granular, ACS reagent, ≥99%	798592
Sodium sulfite, anhydrous, reagent grade, ≥98%	901916
Sodium thiocyanate, ACS reagent, ≥98.0%	909017
Sodium thiosulfate, ReagentPlus®, 99%	909173
Tetrabutylammonium hydrogensulfate, anhydrous, 97%	791784
Tin(II) chloride, reagent grade, 98%	908924
Zinc chloride, anhydrous, ACS reagent, ≥97%	746355
Zinc chloride, anhydrous, reagent grade, ≥98%	793523

Redi-Dri™ Detergents and Denaturants

We offer high purity Redi-Dri™ detergents and denaturants for your cell culture, lipid, and biochemistry research.

Detergents and Denaturants	Cat. No.
Guanidine hydrochloride, anhydrous, ≥99%	RDD001
Guanidine thiocyanate, for molecular biology, ≥99.0%	RDD029
1-Octanesulfonic acid sodium salt, 98%	RDD032
Polyvinylpyrrolidone, powder, average mol wt 40,000	RDD033
Sodium dodecyl sulfate, anhydrous, ACS reagent, ≥99.0%	RDD021
Sodium 1-heptanesulfonate, anhydrous, reagent grade	RDD042
Urea, Bioreagent, ≥98%	RDD034

Redi-Dri™ Other Offerings

Our catalog includes quality Redi-Dri™ reagents to meet all other application and research needs.

Other	Cat. No.
Aluminum oxide, activated, acidic, Brockmann I	799300
Aluminum oxide, activated, neutral, Brockmann I	799319
Kaolin, anhydrous	795453
D-(+)-Glucose, anhydrous, ≥99.5%	RDD016
Sucrose, anhydrous, ACS reagent	RDD023

SigmaAldrich.com/redi-dri



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